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Washington, D.C. 20585 (202) 252-8800

Released for printing: September 26, 1983

# **Petroleum** Supply Monthly



September 1983

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Energy Information Administration | DOE/EIA-0109/83/09) Washington, D.C. 20585

Dist. Category UC-98





# Contents

#### This Month in the PSM

This Issue of the Fatrolium Supply Monthly features "Delitable Field (Overview: White Field Schiff (p. 16), "Delitable Field (Overview: White Field Schiff (p. 16), "Delitable Field (Overview: White Field Schiff (p. 16), under the upper of the property of the property of the during the upper of the property of the property of monthly of the upper of the property of the property of monthly of the property of the property of wides a patroleum cerview and polylipid settlists and readical test of I.A. third antice, "U.S. Cucke (I). Natural wides a patroleum cerview and polylipid settlists and readical test of I.A. third antice, "U.S. Cucke (I). Natural seasons in a shared commission of the property of seasons in a shared commission of the property of seasons in a shared commission of seasons in a shared seasons of seasons in a shared seasons of seasons in a shared commission of seasons in a shared seasons of seaso



#### Petroleum Focus

Page

x

10

14

24

29

30

Fuel Oli Trends
U.S. Crude Oli and Natural Gas Reserves

## Summary Statistics—July 1983

Crude Oil and Petroleum Products Overview...

Crude Oil and Petroleum Products Overview...
Crude Oil Supply and Disposition ......
Finished Motor Gasoline Supply and Disposi-

# Sources. Detailed Statistics—July 1983

### National Statistics

- - Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products....

     Daily Average Supply and Disposition of
- Crude Oil and Petroleum Products.
  5. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products.

#### Supply and Disposition of Crude Oil and Petroleum Products by PAD Districts

PAD District !
 PAD District !!
 PAD District !!
 PAD District !!
 PAD District !!
 PAD District IV
 PAD District V

Production of Crude Oil and Lease Condensete
11. Production by PAD District and State,
February 1983

February 1983.

Natural Gas Processing
12. Plant Production of Petroleum Products

13. Refinery Input of Crude Oil and Petroleum Products. 14. Refinery Production of Petroleum Prod-

15. Percent Refinery Yield of Petroleum Products

# Contents (Continued)

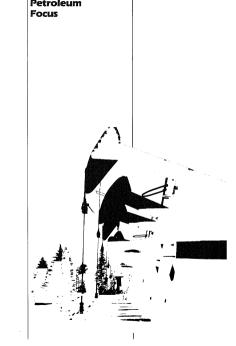
Contents (Continued)		
	Page	
Imports and Exports of Crude Oil and Petro- leum Products		Figures
18. Imports by PAD District. 17. Imports by Source and PAD District. 18. Exports by PAD District. 19. Exports by Destination	38 39 43 44	Petroleum Overview Petroleum Products Supplied Crude Oll Supply and Disposition Crude Oil Ending Stocks.
Stecks 20. Stocks of Crude Oil and Petroleum Prod- uota by PAD District	46	Motor Gasoline Supply and Disposition
Transportation of Crude Oil and Petroleum Products Between PAD Districts 21. Movements by Pipeline, Tanker and		Residual Fuel Oll Supply and Disposition
Barge	51 52 52	Liquefied Petroleum Gases Ending Stocks Crude Oil and Petroleum Product Imports
Barge	53	
Heevy Fuel Olle by Sulfur Content 25. Production of Residual Fuel Oll . 26. Stocks of Residual Fuel Oll . 27. Movements by Tanker and Barge . 28. Imports of Residual Fuel Oll by Country of Origin. 28. Imports of Residual Fuel Oll by State of Entry .	54 54 54 56 56	
Glossary		
Definitions of Petroleum Products and Other Terms	59 65	
Maps		
PAD Districts  Bureau of Mines Refinery Districts  District Map, Oil and Gas Division, Railroad	66 67	
Commission of Texas	68	
Data Collection Methodology     1.1 Weekly Petroleum Supply Reporting System (WPSRS)	71 71	
1.2 Monthly Petroleum Supply Reporting System (MPSRS)	72	

Page

15

75

vels.....





# Petroleum Supply Summary

		August		c	umulative Jan Through Aug	
Average Volume for Period			%			%
(Million Barrels Per Day)	1983	1982	Change	1983	1982	Change
Total Product Supplied	15.2	14.8	2.3	14.9	15,4	- 3.0
Motor Gasoline	7.0	6.6	5.4	6.8	6.6	0.5
Distillate Fuel Oil	2.4	2.2	9.4	2.6	2.7	- 4.2
Residual Fuel OII	1.3	1.5	- 17.6	1.4	1.8	- 22.1
Crude Inputs to Refineries Crude Oil and Natural Gas	12.3	11.9	3.2	11.6	11.8	- 1.5
Liquids Production	10.2	10.2	0.3	10.2	10.2	0.3
Net Imports!	5.3	4.4	20.8	4.0	4.2	- 5.8
Net Crude Oil Imports?	3.7	3.3	9.4	2.8	3.1	-9.5
SPR Imports	0.3	0.2	58.7	0.2	0.2	44.8
Net Product Imports	1.3	0.8	56.9	1.0	1.0	- 2.1
Crude Oil Stock Withdrawel*	- 0.11	- 0.23	_	0.02	0.04	_
Product Stock Withdrawal	- 0.43	0.04	-	0.22	0.44	-
Stocks at End of Period (Million Barrels)						
Crude Oil?	350	353	NM			

53 782 274 1.408 'Gross imports of crude oil including Stretegic Petroleum Reserve (SPR) and petroleum products less exporte of crude oil and petroleum producte \*Excluding SPR

NM

NM

NM

NM

28.4

NM

\*Including blending components. NM = Not meaningful due to new stock besis.

Motor Gasoline

Distillate Fuel Oil

Residual Fuel Oil

Total Product

SDR

Total

Note: Percent changes are based on unrounded values. August 1983 data are estimates based on weekly date, except for export and Natural Gas Liquide Production estimates which are July 1983 monthly values. Totals may not be equal to sum of components due to Independent rounding. Source: Energy Information Administration, Petroleum Sunniv Monthly, September 1983.

223 227

142 159

756

351

1.458

48



# Distillate Fuel Oil Overview: Winter 1983-84

The Energy Information Administration (BIA) projects an everage demand levier of boots 27, million barrier per day (MMBD) for distillate tuel oil, during the winter of 1983-44 (Cholen 1983 through Macro 1983-44 (Cholen 1983) through Macro 1983-48 (Levier 1983) through Macro 1983-48 (Levier 1983) through Macro 1983-48 (Levier 1984) through the second section of selling prices. The projected demand is about 17 percent higher than the abornially low whiter 1982-38 level of 2.7 MMBD. Despite lower distillate in vernoriate him which we eventoriate him any endo-Chaputs levies in the last decade, ample lumin, writing aposityly, crude of locks, and to time a expected winter demand.

These demand projections are predicated on an aversep retail price for No. 2 healing joil about 9 cents per gallon less than last winter's average of \$1.16 per gallon. EL/e forceast also essumes a return to normal winter weather. Last winter was the warmest in 30 years, and the population-weighten familing-degree days were about 5 percent below normal. Also, a substantial kinbed by the production over winter 186-28 sixles is assumed. Distillate demand is highly seasonal, peaking in the winter and felling off in the summer. Seasonal fluctuations in demand have diminished somewhat over the last decade with the steady growth of non-heating uses of distillate. In 1982, half of all deliveries of distillate from the seasonal fluctuation uses.

Each summer, retinery production of distillate accessed command as retiners used instancts for the harding season. Command as retiners used in the season of the season of

'Energy Information Administration, Short-Term Energy Outlook (August 1983), DOE/EIA 0202(B3/SQ)-1, (Washington, D.C.,



Crude oil supplies needed for Increased production levels are readily available. Crude oil stocks have measured between 341 and 366 million barriels in the past year and were 360 million barriels in the end of August. Crude oil supplies are also available from foreign sources, at prices below these oil 1822: the first quarter 1930 crude oil refirms acquisition cost averaged \$2,937 per part barrier Comparer to \$3,000 in the first quarter of year than comparer to \$3,000 in the first quarter of size that comparer to \$3,000 in the first quarter of size than comparer to \$3,000 in the first quarter of size than comparer to \$3,000 in the first quarter of course of the size than comparer to \$3,000 in the first quarter of the course of the size of the size of the size of the size of the course of the size of the size of the size of the size of the course of the size of the size of the size of the size of the course of the size of the size of the size of the size of the course of the size of t

About 19-20 percent of the yeld from efficietes is distilties fuel oil, while over twice that amount, on the averege, is gasoline. Efforts to build distillate inventories through increased refinery utilization would produce while the production of the production of the control of the production of the past summer, and motor gasoties inventories are at a comfortable level. Thus, there is not a strong incentive to build olistifiate inventories in the production of the production of the production of the through production along, at pile, could result in larger

The alternative to building inventories through production is to increase not imports (gross imports minus exports). Between 1973 and 1981, not imports account of 1981, not imports account of 0.5 to 12 percent of distillate product supplied on an annual basis, but the pattern for not imports of distillate.

changed in 1982. Net imports were equivalent to less than 1 percent of demand. Gross imports averaged 82,000 barrels per day, their lowest level in a decade, and the state of the state of the state of self-less exports. Britishle exports, which had never in the leat decade exceeded an annual average of 9,000 berrels per day, resched 74,000 barrels per day.

The top sources of imports in 1982, and for the first four months of 1883, were Westerm Hemisphere locations (the Virgin Islands, Canada, Puerto Rico, and Venezuela, the top soproi destinations were more diverse (Japan, Maxico, and the Netherlands). Thus far in 1983, ex-ports have been averaging alighity more than in 1982, with the Far East continuing as the most frequent destination.

Although distillate inventories were at their lowest endch-August levels in more than a decade, the refining capability, crude oil stocks, and import capability are available to meet demand during the upcoming winter heating sesson. These sources can be tapped well in edvence of the peak consumption period from December through Fabruary.

# Fuel Oil Trends

Demand for distillate and resound feet cities during the comming wither it as expected to be well below the peak issued to be years ago, but highly then the unusually for exemption of the committee of the commi

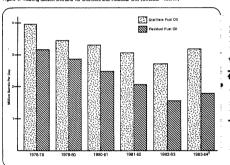
#### Patroloum Overview

Demand for petroleum products peaked in 1978, when the United States consumed an everage of 18.8 million berrels per day (MMBD). Since then, a number of fectors have contributed to changes in demand for petroleum products including distillate and residual fuels. Some of these fectors gra:

NOTE: Unless otherwise referenced, the date contelled in this article are based on petroleum supply stetistics published by the Energy informetion Administration (Elb.) in the Weekly Fe-troleum Status Report DOE/EIA-02088/3788, Petroleum Supply Monthly DOE/EIA-03088/398, Petroleum Supply Annuel DOE/EIA-03088/398, Petroleum Supply Annuel DOE/EIA-03088/398, Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and Predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and Predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and Predecessor reports. EIA's Short Petroleum Supply Annuel DOE/EIA-03088/398, India 2) and Predecessor reports. EIA's Short Petroleum Short

the source for projections

Figure 1. Heating Season Demand for Distillate and Residual Oils (October - March)



<sup>1</sup> Projected

) Projection. Source: Energy Information Administration, Patroleum Statement Annual (1978–1980), "Patroleum Supply Annual (1981–1992)," "Patroleum Supply Monthly" and "Short-Term Energy Outlook (1983-1984)."

- Crude oil prices: Middle Eastern events in the last 1970's led to aupply disturbences that helped push crude oil prices upward to nearly \$40 per barrel by early 1981. Although prices have subsided to an average of about \$28 per barrel, this is attli nearly doubt the laster in 1072.
- Conservation: As oil prices escelated, Americans turned to measures such as smaller care, more insulation, conventions from oil to gas, electricity, or wood, supplemental use of solar energy, and more efficient furnaces and boilers to reduce fuel oil demand. Whether or not such estitities have "peaked out," at least for the short term, will be a factor in seterminion future demand leads.
- The economy: While real Gross National Product (GNP) graw at an everage rate of 1.4 percent per year from 1978 through 1992, the ratio of energy consumption to GNP fell by more than 10 percent.
- Weather: The 1982 weather was a temporery factor in the reduced petroleum demand. Measured in terms of population-weighted heating degree days, last winter was about 8 percent warmer than normet. Summer cooling requirements were lower as well, further reducing demand for electricity.

Data for the first half of 1983 show that both total paticleum demand and not imports have continued to drop, despite recent aligns of accommic recovery and stable cross of the control of the control of the control of prices. Petroleum demand swerged less than below demand during the first half of 1982. Net imports have again fallale alience barrello-forced with the decrease in consumption, or about 600,000 berrels per day. Net imports of ortuce oil and perfortieum products averaged 3.5 MMGD during the first 6 months of this extraction. The control of the control of the control of the extraction of the control of the control of the control of the extraction. The control of the control of the control of the extraction of the control of the con

Economic recovery, stable prices, and the return of normal weather patterns are expected to lead to increased petroleum consumption during the second half of 1983. Preliminary data indicate that this trend is already under way.

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) are expected to increase from 28 million bernels per day last wither to 4.0 million barrels per day in the coming winter. This is about a 40-per ont increase over leaf year's level, but is well below the peak annual average of 6.6 million berrels per day recorded during 1977. Petroleum products imports are

also expected to increase as a result of reduced primary stock withdrawals. Net imports of crude oil and petroleum products, which averaged aimost 3.7 MM8D during the last winter, are expected to average about 5.3 MM8D this winter.

#### Distillate Fuel Oll Trends

Distillate consumption in 1982 declined for the fourth consecutive year from 1978's peak of 3.4 MMBD. The 1982 demand level was the lowest in more than a decade, Based on preliminary data, demand for distillate fuel oil, measured as product supplied, everaged 2.6 MMBD for the first 8 months of 1983, compared with 2.7 MMBD for the comparable 1982 period.

Both production and stock level trends for distillate have also been downward. Based on prelimitings dist, production averaged 2.8 MMBD for the first 8 months of MMBD. Stock at the second stock and second second

Demand for distillate fuel oil, including home heating oil, disest fuel, and distillate burned at electric utilities, is projected to increase about 17 percent during the winter of 1983-84 compared to tast winter's tevels. Demand for disest fuel is also expected to increase about 50,000 barries per day, due to increase for common accommon accitative and a continuation of the gradual penetration of disest engines into the stock of motor vehicles.

Retail heating oil prices are expected to fall from an average of \$1.16 per gallon last winter to about \$1.07 per gallon during the upcoming winter. This represents about a 12-percent decline in real dollare. (This expectation is predicated on a continuation of current world oil prices, in normal stems, through March 1984).

### Supply Availability

The projected increase in demand is expected to be supplied primarily through increased refinery throughput. Refinery production of distillate is expected to average almost 3 MMBD during the upcoming winter, compared with 2.5 MMBD last winter.

Although stocks of distillate are low by recent historical standards, even in a colder-then-normal writer, assuming no major disruptions in the international flow or crude oil, demand can be met by a combination of increased production, stock withdrawals, and imports (see Figure 2). Refinery utilization rates during August averaged about 75 percent; thus, refinery capacity is enabled to increase production. Soft production are sufficiently designed and the production are production. Both crude oil

end distillate fuel oil are currently available in international markets, and imports could increase substantialby without reaching the levels of the late 1970's.

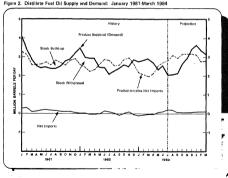
Production was the principal supply component during the five heating seasons from 1978 to 1983; stock with-drawale ranked second. For all of 1982, refinery production was 89 percent of U.S. supply, stock withdrawals eccounted for elightly more than 1 percent, end not limport, accounted for less than 1 percent, in 1978, production accounted for 59 percent of supply, stock with-counter of the production second of programs accounted for 5 percent of 1979, production accounted for 5 percent of 1979, stock with-counter of the product supplied.

Primary stocks building generally begins during the summer months, when it is common to diver 15 to 20 percent of the distillate production to this purpose. Stocks build-up continues through the fell in anticipation of the December through February maximum con-

sumption period. This maximum consumption period is also the period when distillate imports usually peak. Maximum refinery production usually takes place during the October through March heating season.

Patrologum Administration for Defense (PAD) District (East Coast) was the region of entry for 87 percent of U.S. imports of classificated rule oil in 1982. However, the region received most of its 1982 supply from PAD District (PAD) of the PAD DISTRICT

Other regions produce higher proportions of their local supply requirements. PAD District II (Midwest) produced 83 percent of its supply requirements in 1982.



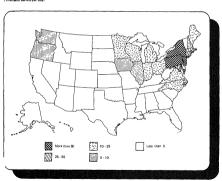
Source: Energy Information Administration, "Petroleum Supply Monthly" and "Short-Term Energy Outlook".

Table 1. Distillate Supply by Region, 1982

	Production	Imports	Stock Chenge	Net Receipts	Exports	Product Supplied
PADDI	105	30	7	215	1	356
PADDII	239	(8)	3	47	(6)	289
PADDIII	447	2	1	- 286	15	170
PADDIV	41	(a)	(a)	- 4	(a)	37
ADDV	119	2	2	7	11	123
II S Total	051	24	12	(na)	27	975

(s) Less than 0.5 million berreis (rs) Not applicable, Source: Energy Information Administration, Petroleum Supply Annuel, 1982.

Figure 3. Distillate Fuel Oil Consumption in the Residential Sector, 1982 (Thousand Barrels per Day)



Source: Energy Information Administration, "Petroleum Supply Annual,"

PAD District III (the Guif Coast) produced almost three times its 1982 requirements. PAD Districts IV (Rocky Mountains) and V (West Coast) were self sufficient.

#### Consumption Trends

Transportation is the largest end use sector for distillate large of large terms of the sector for distillate large of large terms of large t

Petroleum Administration for Defense (PAD) District I (East Coast) maintained the largest share, 3 preced the total U.S. demand for destiliate fuels, during 1982. The control of the total U.S. demand for destiliate fuels, during 1982. The control of the control

PAD District II, the second largest consuming region, accounted for 30 percent of U.S. distilliate fuel oil consumed during 1982, Fifty-five parcent of the region's consumption was used for transportation purposes, and only 13 percent was used for residential heating.

In January 1982, these two regions accounted for 74 percent of total U.S. demand for distillate, in July of 1982, however, they accounted for only 68 percent figure of 1982, however, they accounted for only 68 percent figure of 1982, however, they accounted for only 68 percent figure of 1982, and they account for 1982, and they account figure of 1982, and 1982,

#### Residuel Fuel Oil Trends

Radicular fuel oil consumption peaked in 1977, at 3.1 MMBD. It has dropped each subsequent year, 121 MMBD in 1982, its lowest lavel since 1985. A major part of this decline is explained by sizable price increases between 1978 and 1981. However, redicual fuel oil fleen and continued to fail in 1982 and in the first half oil fleen, mand continued to fail in 1982 and the first half oil fleen and the first half of the first ha

Figure 4. Seasonal Variations in U.S. Distillate Oil Demand

> Anaer 1982 3.5 Million Barrels per Day

July 1982 2.1 Million Berrels per Day



PAD District I	PAD District
PAD District II	PAD District
PAD District III	

Source: Energy Information Administration, "Petroleum Bupply Monthly." on coel, natural gas, hydropower, and nuclear facilities for electricity generation, the leading use for residual fuel oil.

This use accounted for 36 percent of all residual fuel oil deliveries in 1982. PAD District I (East Coast) accounted for over half of the total U.S. residual fuel oil delivered to electric utilities in 1982.

Other major consumers were industrial and oil companies, vessels and railrocas. The recent weekness in the economy has affected all the uses of residual fuel oil, Although deliveries to most users occlined seel of liferant uses changed title. Vessels bunkering and different uses changed title. Vessels bunkering and sumption since 1977, grew from 128 million barrels in 1977 to 153 million bærrels in 1987.

Deliveries of residual fuel oil for electric utility use totailed 227 million barrels in 1982, 98 million barrels lessthan the 1981 amount. Electric utilities accounted for 72 percent of the 1-year drop in total residual fuel oil use. The reductions in utility consumption in two states, California and Florics, of 27 and 225 million barrels; respectively, accounted for much of this chance.

#### Demand Outlook

Recovery in demend is expected during the second half of 1983. A winter rebound to 1 a Million barriels per day to projected for the winter of 182344, a 12-percent invariant of 182445, a 12-percent invariant of 182445, a 12-percent invariant of 182456, a 12-percent invariant of 182456, and the second of

#### Sources of Supply

Residual fuel oil is supplied from production, net imports, and stock withdrawals. Production accounted for only about 62 percent of supply in 1982. Stocks supplied an additional 5 percent. Net imports accounted for 33 percent, the bignest percentage for any finished petroleum product but less than the percentages experienced early in the 1970's. About 70 percent of 1982 imports came from Venezuele, Netherlands Antilles, the Virgin Islands, and Algeria, Following the relaxing of export requietions in 1981, exports have risen to record levels, reaching 229,000 barrels per day in the first half of 1983, Four destinations, (the Netherlands, Kores, Bahamas, and Singapore), accounted for about half of these exports. Current stock levels reflect the low demend for residual fuel oil. However, domestic production is projected to increase in response to rising demend and no difficulty is anticipated in meeting winter demand from traditional supply sources.

# U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves

As of December 31, 1982, U.S., proved reserves were estimated to be 27.9 billion barrels of ortude (i), 72 billion barrels of natural gas liquids (including lease concensale), and 202 trillion oublic feet of dry natural gas (excluding gas in underground storage). Crude oil reserves decrosced 63 percent and natural gas reserves depolaned 0.1 percent within natural gas liquids reserved increased 2.9 percent [see Table 1).

The set decilies of 1.8 billion barrille of crude oil reserves increased in the lowest level of reserves increased each server seawer in the lowest level of 1962. Proved crude oil reserves have decreased each year from the peak level of 30 billion barriels in 1970, when estimates for Prudhoe Bay field in Alaska were increased to the peak of 1970, when estimates for Prudhoe Bay field in Alaska were increased to the peak of 1970, but resumed in 1982. Total discoveries added 1.0 billion berriel of reserves during 1982. About three-rifths of the additions were from extendions to reserve first the peak of 1970, and 1970, an

Proved reserves of dry natural gas decreased about 0.2 trillion cubic feet during 1982. Even so, reserves were about 1 percent above the recent minimum level in

1980. Of the 14.5 trillion cubic feet of gas reserves added during 1982, about three-fifths were from extensions to reservoirs found in prior years, and the remainder were new field and new reservoir discoveries.

Reserves of netural gas liquids increased for the third consecutive year to? 2 billion barriels. This is the high-est level since 1971. Although there were smaller reserve additions from discoveries (0.6 billion barrels) during 1822 than in the previous year, revisions to previous estimates and adjustments contributed to the net increase in preserve.

The estimates of proved reserves are based upon an analysis of date filled by 2,722 operators of oil and gas wells and by 971 operators of natural gas processing plants. The crude oil and natural gas proved reserves estimates are associated with sampling errors of less than 0 encern at a 85-person confidence law!

The full report "U.S. Crude Oll, Natural Gas, and Natural Gas Liquids Reserves, 1982 Annual Report" will be released by the Energy Information Administration in October 1983.

Table 1. Estimated Total U.S. Proved Reserves of Crude Oil.

	Natura	al Gas Li	quids, ar	nd Natura	al Gas	
	Proved Reserves et Start of Yeer	Net Revisions'	Total Discoverina	Production	Proved Reserves all End of Year	Percent Change
		Crude	Oll (Million 8	terrela)		
1977	33.502*	346	794	2.862	31,780	- 5.1
1978	31,780	1,756	827	3,008	31,355	- 1.3
1979	31,355	774	638	2.955	29,810	- 4.9
1680	29,810	2,108	882	2.975	29,805	(0)
1981	29,805	1,409	1,161	2,949	29,426	- 1,3
1982	29,426	351	1,031	2,950	27,858	- 5.3
		Netural Gea	Liquids (Mill	Ion Berrele)*		
1979	6.7723	15	555	727	6,615	- 2.3
1980	8,615	257	587	731	6.728	+ 1.7
1981	6,728	317	784	741	7.068	+ 5.1
1982	7,068	278	598	721	7,221	+ 2.2
		Noturel G	on (Billion Cu	ible Feeti*		
1977	213.2783	- 1.825	14,603	18,483	207.413	-2.8
1978	207.413	1.404	18,021	18,805	208,033	+0.3
1979	208.033	- 2.483	14,704	19,257	200,997	- 3.4
1989	200,997	2,250	14,473	18,699	199,021	- 1.0
1981	199,021	4,228	17,220	18,737	201,730	+14
1982	201,730	2.833	14,455	17,506	201,512	-0.1

<sup>&#</sup>x27;Algebraic sum of revision increases, revision decreases, and net of corrections and adjustments.

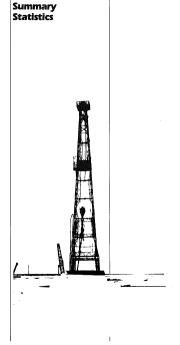
Proved reserves at end of year equal proved reserves et stert of year, plus net revisions (including corrections and adjustments), plus total discoveries, minus production.
Bessed on following year data only.
Including lease condensate.

<sup>\*</sup>Dry natural gas excluding gas in underground storage. (s) Less than 0.05 percent.

Source: Energy Information Administration, "U.S. Crude Oil, Naturel Gas, and Natural Gas Liquids Reserves, 1982 Annual Report", "Advance Summary, August 31, 1983."

Note: Production figures are on cill reservoir and gas reservoir bases to maintain a balance in reserve soccurring. These figures differ from those shown for production in the "Petroleum Supply Annual" and other EIA publications.





### Crude Oil<sup>1</sup> and Petroleum Products Overview

		Fiel	Field Production		Stock W	Stocke <sup>2</sup>		
		Total Domestic <sup>4</sup>	Crude OII	Netural Gee Plant Production	Cruda Oll <sup>5</sup>	Patrolaum Producta	Patroleum Producta Supplied	Crude Oil <sup>5</sup> and Patroleum Producta
				Thousand Barr	els per Day			Millone of Barrala
1973	AVERAGE	10,875	9,203	1,738	11	-146	17,308	1,008
1974	AVERAGE	10,498	8,774	1,698	-82	-117	18,863	€ 1,074
1975	AVERAGE	10,045	8,375	1,633	-17	-145	18,322	1,133
1976	AVERAGE	9,774	8,132	1,803	-39	96	17,481	1,112
1877	AVERAGE	9,813	8,245	1,618	-170	-378	18,431	1,312
1978	AVERAGE	10,328	8,707	1,567	-78	172	18,847	1,278
1979	AVERAGE	10,178	8,552	1,694	-148	-25	18,513	1,341
1980	AVERAGE	10,214	8,597	1,573	-98	-42	17,058	4 1,382
1981	January	10,231	8,540	1,652	80	1,159	18,430	1,389
	February	10,284	8,604	1,653	-278	250	19,989	1,389
	March	10,272	8.613	1,624	-632	224	15.907	1.401
	April	10,195	8.557	1,599	-595	148	15,350	1,415
	May	10,160	8,501	1.693	-391	-374	15.353	1,438
	June	10,287	6,629	1,594	~135	406	16,095	1,430
	July	10,098	8,500	1,548	-360	91	15,682	1.439
	August	10,243	8,583	1,614	397	-889	15.293	1,457
	September	10,281	8,604	1,612	-285	-341	15,855	1,478
	October	10,225	8,583	1,598	~760	477	15,822	1,485
	November	10,269	8,588	1,630	-325	-233	15.593	1,501
	December	10,220	8,585	1,690	-170	745	16,599	1,484
	AVERAGE	10,230	8,572	1,609	-290	130	18,058	.,
1982	January	10,128	8.509	1,578	-401	1,298	16.124	1,466
	February	10,312	8,702	1,563	-242	1,230	18,001	1,428
	March	10,284	8.867	1,572	121	1.047	15,560	1,392
	April	10,188	8.591	1,542	-37	1,583	18.046	1,346
	May	10.244	8,683	1,518	29	-66	14.847	1,347
	June	10,212	8,646	1.511	40	-489	14,998	1,380
	July	10,229	8,658	1,513	-147	-928	14.821	1,393
	August	10,215	8.634	1,524	-440	-44	14,839	1,408
	September	10,279	8.701	1,518	283	-667	15,022	1,414
	October	10,289	8.701	1,530	-548	-47	14.859	1,432
	November	10,359	8,697	1,609	-398	-361	15,008	1,455
	December	10,276	8,598	1.628	128	688	15,487	6 1,430
	AVERAGE	10,252	8,648	1,650	-136	283	15,296	.,
1883	January	10.356	8.634	1,668	-567	865	14,765	1,453
	February	10,298	8,680	1,585	-382	1,128	14,772	1,432
	Merch	10,259	8.677	1,544	88	1.765	15.484	1,375
	April	10,229	8,686	1,502	-438	431	14,779	1,378
	Mey	10,231	8,682	1,453	68	-759	14,250	1,397
	June	10,282	8,678	1,514	-183	-242	15,281	1,409
	July*	10,237	8,647	1,536	R 118	R -922	R 14,913	B 1,434
	August**	NA	8,653	NA.	-453	-432	15.175	1,458
	AVERAGE	NA.	8,884	NA	-217	219	14,928	.,400

Ending

A negative number indicates an increase in stocks and a positive number indicates a decrease.

ela---- totals as of end of period. "> " natural gas clant production, other hydrocarbons and alcohol.

<sup>&</sup>quot;of in the Strategic Petroleum Reserva.
"81, and 1983, significant numbers of new respondents were added to built rivelys as a result of extensive investigation during the previous years.

in on the reporting of stocks and stock withdrawals. Using the expanded and of year stocks would be: 1974-1,121, 1990-1,400 and 1982-1,462.

g 1975, 1981 end 1985 are calcifolded using new basis stock levels,

of components due to independent rounding. H = Revised data.

<sup>/</sup> dela. See Explanatory Note 8. 50 United States and the District of Columbia. the end of this section.

Crude Oil<sup>1</sup> and Petroleum Products Overview ( continued )

			Importe			Exports		
		Total	Crude OII <sup>2</sup>	Petroleum Producte	Total	Crude OII	Petroleum Producte	Net <sup>3</sup> Importe
				Thouse	and Berrels p	er Day		
1973	AVERAGE	8,256	3,244	3,012	231	2	229	8,026
1974	AVERAGE	5,112	3,477	2,638	221	3	218	5,892
1975	AVERAGE	6,056	4,105	1,951	209	6	204	5,846
1976	AVERAGE	7,313	5,287	2,026	223	8	216	7,090
1977	AVERAGE	8,807	6,616	2,193	243	50	193	8,665
1978	AVERAGE	8,363	6,356	2,008	382	166	204	8,002
1979	AVERAGE	8,456	6,519	1,937	472	235	237	7,984
1980	AVERAGE	6,909	5,263	1,646	\$44	287	268	8,365
1981	January	6,827	4,932	1,895	588	339	219	6,270
	February	6,772	4,873	1,899	568	198	371	6,203
	Merch	6,028	4,521	1,507	586	210	378	6,442
	April	5,668	4,338	1,330	570	198	372	6,098
	May	5,775	4,287	1,489	596	312	283	6,180
	June	5,435	4,061	1,375	420	123	297	5,015
	July	5,816	4,296	1,521	571	257	314	5,245
	August	5,767	4,179	1,588	644	204	440	5,123
	September	6,355	4,740	1,624	519	194	325	5,845
	October	6,959	4,380	1,579	738	226	512	5,221
	November	5,741	4,046	1,695	701	278	423	5,041
	December	8,843	4,137	1,706	656	189	487	6,187
	AVERAGE	8,986	4,396	1,699	885	228	387	6,401
1982	Jenuary	8,332	3,693	1,839	829 804	238 304	591 499	4,503
	February	4,807	2,990	1,817				
	Merch	4,484	2,874	1,610	882	321	561 811	3,802
	Aprii	4,378	2,849	1,529	786	174		
	May	4,811	3,309	1,503	803 703	282 94	642 609	4,008
	June	5,327	3,836 4,248	1,491	741	229	612	5,149
	July August	5,890 5,244	3,851	1,642	858	204	664	4386
	August September	5,244	3,851	1,778	791	184	508 608	4,624
	October	5,419	3,636	1,638	932	270	862	4,374
	November	5,744	3,852	1,638	786	262	524	4,958
	December	4,608	3,862	1,605	/86 860	193	687	3,746
	AVERAGE	5.113	3,488	1,605	815	236	579	4,298
					973	117	886	3,399
1983	January February	4,372 3,681	2,938 2,268	1,434	973 865	202	603	3,399 2,825
	Merch	3,641	2,266	1,423	801	174	827	2,825
	Andi	4.744	3,154	1,590	801	88	721	3,935
	May	4,744	3,164	1,864	848	290	558	4,048
	May June	4,898 5.218	3,234	1,864	774	144	630	4,443
	Julio July*	B 5,690	R 3,868	R 1.822	571	145	428	5,119
		5.871	4,129	1,741	NA NA	NA NA	925 NA	NA NA
	Average	4,776	3,176	1,600	NA NA	NA NA	NA.	NA.
	AVERAGE	4,776	0,1/6	1,600	NA.	NA.	NA.	NA.

<sup>1</sup> Includes lesse condensate.

<sup>2</sup> Includes crude oil for storage in the Strategic Petroleum Reserve. Net Imports — Imports minus Exports.

Totals may not equal sum of components due to independent rounding.

NA = Not synthetie. R = Revised data.

See Explanatory Note 9.1.

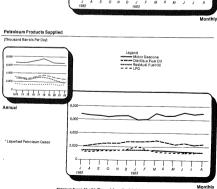
See Explanatory receiver.

Italica denote preliminary data. See Explanatory Note 8.

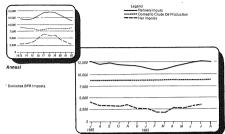
Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

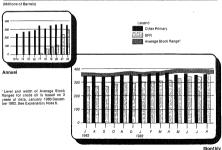
# Petroleum Overview (Thousand Barrels Per Day) Legend --- Petroleum Product Supplied Refinery Production Net Petroleum Product Imports 20,000 -Annual 15 000 ----10.000-5,000 -



### Crude Oil Supply and Disposition (Thousand Barrels Per Cavi



# Crude OII Ending Stocks



Monthly

Crude Oil<sup>1</sup> Supply and Disposition

			Supply											
		Flaid Pr	eduction		Imports		Ste Withd							
		Total Domsetic	Alaaken	Total	SPR <sup>3</sup>	Other	SPR <sup>3</sup>	Other	Unac- counted for Cruda Oll					
					Thousand Ba	arrels per Dey	,							
1873	AVERAGE	8,208	198	3,244		3,244		11	9					
1974	AVERAGE	8,774	183	3,477		3,477		-82	-26					
1976	AVERAGE	8,376	191	4,105		4,105		-17	17					
1975	AVERAGE	8,132	173	5,287	21	5,287		-39	77					
1977	AVERAGE	8,245	464	8,615		8,594	-20	-150	-9					
	AVERAGE	8,707	1,228	6,358	182	8,196	-183	84	-67					
1979	AVERAGE	8,552	1,401	8,518	87	6,452	-87	-81	-11					
1990	AVERAGE	8,597	1,817	5,253	44	6,218	~45	-62	34					
1881	January	8,540	1,608	4,932	108	4,826	-151	201	113					
	Petruary	8,804	1,618	4,873	80	4,793	-127	-150	-41					
	Merch	8.813	1,618	4.521	140	4.382	-155	-477	154					
	April	8,557	1,808	4,338	272	4.068	-444	-151	51					
	Mey	8,501	1,580	4.287	388	3,901	-513	122	288					
	June	8.629	1.832	4.081	318	2.743	-434	288	49					
	July	8,500	1,605	4.296	175	4.121	-324	-36	147					
	August	8.583	1.502	4.179	257	3,822	-372	769	16					
	September	8,604	1,607	4.740	435	4.305	-496	201	-295					
	October	8,563	1,596	4.380	453	3,927	-601	-259	186					
	November	8,586	1,614	4.046	271	3,774	-259	-66	279					
	Opcember	8,685	1,623	4.137	165	3,971	-262	82	52					
	AVERAGE	8,572	1,898	4,248	253	4,141	-338	46	83					
	Jenuary													
1982	February	8,509 8,702	1,705	3,693	170	3,523	-159	-242	101					
	Heoruary March	8,702	1,707	2,990	159 185	2,830	-213 -235	-28	158					
	Acel	8,591	1,896	2,874	185		-235 -233	357	. 2					
						2,859		196	231					
	May	8,683	1,707	3,309	204	3,105	-176	205	111					
	June	8,648	1,685	3,838	105	3,732	-105	144	133					
	July		1,710	4,248	97	4,150	-87	-50	-20					
	August	8,634	1,697	3,851	208	3,643	-208	-232	189					
	Septembar	8,701	1,705	3,636	139	3,497	-143	406	-210					
	October	8,701	1,706	3,670	216	3,454	-216	-332	249					
	November	8,697	1,676	3,862	180	3,883	-179	-219	-124					
	December	8,598	1,682	3,000	124	2,877	-125	252	35					
	AVERAGE	3,848	1,898	3,488	195	3,323	-174	38	71					
1883	January	8,634	1,698	2,838	219	2,720	-219	-348	238					
	Februery	8,860	1,725	2,268	197	2,071	-187	-185	423					
	Merch	8,677	1,726	2,232	201	2,031	-184	240	134					
	April	8,686	1,710	3,154	205	2,848	-197	-241	191					
	May	8,682	1,710	3,234	289	2,945	-293	362	148					
	June	8,876	1,710	3,502	190	3,312	-188	25	490					
	July*	8,647	1,706	B 3,888	B 274	R 3.694	R -264	B 382	-74					
	August**	8.653	1.712	4.129	330	3.789	-344	-110	NA					
	AVERAGE	8,584	1,712	3,175	239	2,935	-237	19	NA					

<sup>1</sup> Includes lease condensate. A negetive number indicates an increase in stocks end a positive number indicates a decrease.

Stratagic Petroleum Reserve.

Totals may not equal sum of components due to independent rounding.

NA = Not available. R = Revised deta.

<sup>\*</sup> See Explanatory Note 9.2.
\*\* Itelica disnota preiminary deta. See Explanatory Note 8.

Vienna devicing preminary cells. 2 one Explanatory victor at.
Note: Stock Withdramels during 1975, 1981, and 1983 are calculated using new besit stock levels.
Geographic coverage: The 50 United States and the District of Columbia.
Sources: Sea "Sources" let the end of this section.

Crude Oil1 Supply and Disposition (continued)

		Supply		Dispo	wition		Е	nding Stock	e2
		Crude Used Directly <sup>0</sup>	Crude Losses	Refinery Inpute	Exporte	Product Supplied <sup>9</sup>	Totel Crude Gil	SPR4	Other Primar
			Thous	end Barrele p	er Day		м	llors of Ben	els
1973	AVERAGE	-19	13	12.431	2	NA.	242		24
1974	AVERAGE	-15	13	12,133	3	NA.	5 285		F 28
975	AVERAGE	-17	13	12,442	6	NA.	271		27
978	AVERAGE	-18	15	13,416		NA	289		285
977	AVERAGE	-14	18	14,802	60	NA	348	7	340
978	AVERAGE	-14	18	14,739	158	NA	378	67	309
1979	AVERAGE	-13	18	14,648	235	NA.	430	91	339
980	AVERAGE	-13	15	13,481	287	NA	5 488	108	F 386
991		-43	8	13,247	336	NA	488	112	374
	Fabruery	-55	3	12,902	188	NA	494	118	378
	Merch	-57	8	12,363	210	NA	514	121	385
	April	-59	3	12,091	186	NA	532	134	38
	May	-59	ä	12,309	312	NA	544	160	38
	June	-58	7	12,415	123	NA	548	163	38
	July	-58	7	12.261	257	NA.	558	173	386
	August	-58	5	12,908	204	NA.	547	185	38
	September	-81	4	12,506	194	NA.	555	199	366
	October	-83	9	12.057	228	NA.	579	215	38-
	November	-84	4	12,240	278	NA.	589	223	38
	December	-63	i	12.349	189	NA	594	230	36
	AVERAGE	-68	5	12,470	229	NA			
982	January	-83	3	11,699	238	NA.	808	235	371
	Februery	-84	2	11,236	304	NA.	813	241	373
	Merch	-63	5	11,276	321	NA.	809	243	381
	April	-85	3	11,392	174	NA	810	258	359
	Mex	-82	3	11,808	282	NA	809	281	34
	June	-60	7	12,494	34	NA	608	264	344
	July	-80	3	12,448	229	NA.	613	287	34
	August	-57	2	11,871	304	NA.	528	274	35
	September	-58	4	12,148	184	NA.	819	278	34
	October	-51	2	11,749	270	NA	808	285	36
	November	-51	ī	11.724	282	NA	546	290	36
	December	-53	- 1	11,514	193	NA	5 844	294	6 356
	AVERAGE	-59	3	11,774	235	NA			
983	Jenuary	NA	2	11,070	117	54	681	301	381
	February	NA.	3	10,635	262	69	872	306	38
	Merch	NA.	2	10,854	174	70	870	312	351
	April	NA.	2	11,438	88	68	884	318	386
	May	NA	1	11,780	280	83	681	327	351
	June	NA	1	12,287	144	84	886	332	354
	July*	NA	2	R 12,347	145	85	B 683	341	B 343
	August**	NA	NA	12,251	NA	NA.	702	351	35
	AVERAGE	NA	NA	11,593	NA	NA			

1 Includes legse condengete.

7

Stocks are totals as of and of period. Beginning in January 1983, crude oil used directly as fuel is presented as product supplied.

for crude oil. Prior to January 1883 crude oil used directly was included with crude oil losses in this table and with product supplied for detillate and residual fuel cits. 4 Strategic Petroleum Reserve.

<sup>5</sup> in January 1975, 1981, and 1983, significant numbers of new respondents were edded to bulk terminal and piceline surveys as a result of extensive investigation during the previous years. The major impect is on the reporting of stocks and stock withdrawals. Using the expanded coverage (new basis) and of year stocks would be: 1974-265, 1893-483 (Total) and 375 (Other primary),

and 1982-844 (Total) and 350 (Other Primary). Totals may not equal sum of components due to independent rounding.

NA = Not evellable. R = Revised date. \* See Explenetory Note 9.2. Sources: See "Sources" at the end of this section.

<sup>&</sup>quot;Helics denote preliminary data. See Explenatory Note 8.
Geographic coverage: The 50 United States and the District of Columbia.

			Supply			Diap	osition		Ending	Stocke <sup>1</sup>
						Р	roduct Supplie	ıd		
		Totel Produc- tion	importa2	Stock With- drawai <sup>2</sup> <sup>2</sup>	Exports	Total	Unleaded <sup>5</sup>	Unleaded	Total Motor Gasoline <sup>4</sup>	Finished Motor Gasoline
				Thousand Be	rreis per Day			Percent of Total	Millions o	of Berrels
1973	AVERAGE	8,635	134	9	4	8,874	NA	NA	208	
1974	AVERAGE	8,360	204	-24	2	8,537	NA	NA.	6 218	
1875	AVERAGE	6,520	184	-28	2	9,875	NA	NA.	235	
1976	AVERAGE	8,941	131	10	3	8,976	NA	NA.	231	
1877	AVERAGE	7,043	217	-72	2	7,177	1,978	27.5	258	
1978	AVERAGE	7,188	190	84	1	7,412	2,521	34.0	238	
979	AVERAGE	6,852	181	2	(4)	7,034	2,788	39.8	237	
1980	AVERAGE	8,608	140	-88	1 1	6,578	3,067	46.6	9 261	
1881		8,715	138	-421	(*)	8,431	3,141	48.8	278	22
	February	8,508	111	-118	1	6,301	3,095	49.1	284	23
	Merch	6,213	171	-81	(*)	6,303	3,097	49.1	285	23
	April	6,114	186	303	(4)	8,602	3,284	49.7	272	22
	May	6,122	150	344	. 1	6,615	3,115	47.1	259	21
	June	6,220	186	622	1	7,028	3.419	48.6	242	19
	July	6.405	151	268	(9)	6,823	3.424	50.2	228	18
	August	6,611	124	-95		6.837	3.344	50.4	233	18
	September	6.564	168	-70	ž	6,662	3.338	50.1	237	19
	Optober	6.426	147	7	ã	6,578	3,257	49.5	236	19
	November	6,564	148	-008	ĭ	6,373	3.198	50.2	248	20
	December	8,586	197	-81	11	6.681	3.444	51.5	253	20
	AVERAGE	8,405	167	28	2	8,688	3,264	49.6		-
1982	January	8,187	128	-318	18	5,861	3,067	51.5	261	21
	February	5,899	133	172	8	6,198	3,210	51.8	257	20
	March	5,994	183	334	44	6,466	3,358	51.9	247	19
	April	8,065	185	850	33	6.897	3,495	50.7	221	17
	May	8,318	182	177	23	8,665	3,415	51.3	214	17
	June	8.764	230	-134	14	6,836	3,565	52.2	219	17
	July	6,768	225	-178	24	6,790	3,577	52.7	228	18
	August	6,419	291	-61	16	6,614	3,526	53.3	227	18
	September	6,527	223	-196	22	6,531	3,404	52.1	234	18
	October	8,262	185	-42	16	8,391	3,351	52.4	234	19
	November	6,273	211	101	11	8,574	3,451	52.5	230	18
	Dogambor	6,642	178	-166	"7	8,549	3,485	53.2	6 235	6 19
	AVERAGE	8,338	187	26	20	8,539	3,409	52.1	- 630	- 10
1983	January	6,020	148	-186	(*)	5,981	3,352	56.0	251	20
	Fobruary	5.848	142	32	(4)	8,022	3,257	54.1	251	20
	March	5.897	205	786	` 23	8,843	3,620	52.9	224	18
	April	6,202	273	27	1	6.501	3,505	53.9	221	18
	May	6.386	284	-128	i	6,540	3,547	54.2	225	18
	June	8.846	285	118	22	7,008	3,796	54.2	223	18
	July*	R 6.704	B 297	B =210	18	R 6,773	3,752	65.4	B 231	19
	Applist**	6.559	238	181	NA.	6,968	NA NA	NA	223	18
	AVERAGE		232	78	NA.	6,686	NA.	NA.	220	,,,
		8,287								

Stocks are totals as of end of period. 2 Beginning in 1981, excludes blending components.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

Includes motor gasoline blancing components. Includes geschol.

In January 1975, 1981, and 1983, eignificant numbers of new respondents were added to bulk terminal

<sup>\*</sup> in January (197), 1981, and 1984, depillated numbers of laws respondent were decided to law terminal and playing surpress are arealled interesting investigation of law provider years. The provider years. The provider years The provider years The provider years. The provider years are provider in the reporting of abotics and stock withdrawnish. Using the compared coverage (new basis), and of or year stocks would be 1974-225, 1982-026, 1982-044. [Oscil-44 (Total) and 200 (Phinhad). Shock withdrawnish during first provider years and provider years are provided to the provider years. In Provided States of Provided States.

See Explanatory Note 9.3.

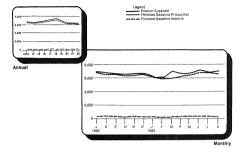
<sup>&</sup>quot; Italics denote proliminary data, See Explenetory Note 8. Note: Beginning in January 1981, survey forms were modified.

Geographic coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

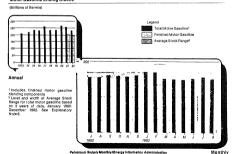
<sup>8</sup> 

### Motor Gasolina Supply and Disposition

(Thousend Barrela Per Day)



### Motor Gasoline Ending Stocks



### Distillate Fuel Oil Supply and Disposition

			S	ipply		Diep	osition	Ending Stocke <sup>1</sup>
		Total Production	Imports	Stock Withdrawar <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exporta	Product Supplied <sup>3</sup>	
				Thousand Ba	rrets per Day			Millions of Barrels
1973	AVERAGE	2,822	392	-115	2	9	3.092	195
1974	AVERAGE	2,568	288	-6	2	2	2,948	1 200
1976	AVERAGE	2,654	156	40	2	- 1	2,851	209
1876	AVERAGE	2,924	145	62	1	í	3,133	188
1977	AVERAGE	3,278	250	-178	- 1	i	3,352	260
1978	AVERAGE	3,187	173	93	i	3	3,432	218
1979	AVERAGE	3,153	193	-34	- 1	3	3,311	229
1810	AVERAGE	2,862	142	64	i	3	2,889	4 205
		apova.		**			1,000	100
1981		2,966	273	818	11	(*)	4,109	179
	February	2,809	325	248	11	17	3,373	173
	Merch	2,484	147	264	8	(*)	2,904	184
	April	2.418	116	-8	10	`′ 3	2,532	185
	May	2,454	179	-232	10	(4)	2,411	172
	June	2.501	225	-270	8	(*)	2,484	180
	July	2.395	179	-204	10	`´ 2	2,378	186
	August	2.656	174	-450	A	(4)	2,388	200
	September	2.610	129	-235	10	17	2,513	207
	October	2,485	119	197	9		2,903	201
	November	2.716	124	36	11	6	2,880	200
	December	2.858	95	277	11	26	3,212	192
	AVERAGE	2,613	173	38	10	5	2,829	192
1000	Jenuary	2.591	97	876	10	90	3,484	164
	February	2,427	132	605	11	90	3,085	147
	March	2.288	48	882	10	84	2,945	126
	Aori	2,358	56	812	13	64	2,943	108
	May	2.818	74	-183	10	76	2,070	114
	June	2,729	102	-183 -335	10	55	2,452	114
	July	2,724	125	-335 -789	11	24	2,452	148
	August	2,507	80	-789	10	40	2,058	148
	September	2,857	61	-85	10	139	2,218	159
	October	2,835	91	-289	12	139		
	November	2,850	145	-209 -514	8	24	2,581	170
	December	2,855	109	225	10	143	2,475	4 179
	AVERAGE	2,000	93	25	10	74	2,855 2,871	* 179
	AVERAGE	2,010	#3	40	10	/4	2,8/1	
863	January	2,314	58	561	NA.	173	2.760	168
	February	2,136	58	742	. NA	105	2.832	147
	March	1,991	42	626	NA.	89	2,900	119
	April	2,169	73	518	NA	47	2.713	103
	Mey	2,444	141	-183	NA	50	2,341	109
	June	2,545	175	-154	NA.	40	2,526	114
	July*	R 2,600	B 259	R -556	NA	55	B 2.248	B 131
	August**	2,597	262	-387	NA	NA.	2.425	142
	AVERAGE	2,352	134	175	NA.	NA.	2,590	/42

Stocks are totals as of and of pariod.

A nonative number indicates an increase in stocks and a positive number indicates a decrease.

Baginning in January 1983, product supplied for distillate fuel oil does not include crude oil used directly. See Explensiony Note 4.

<sup>4</sup> In January 1976, 1981, and 1983, significent numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major but infrarial articly pleans surveys as a result or excensive investigation during the privious years. The major impact is on the reporting of stocks and stock withdrawes! Using the expanded coverage (new basis), and of year abosts would be: 1974-224, 1980-205, and 1982-186. Stock withdrawes! during 1973, 1981, and 1983 are calculated using new basis book loves.

<sup>(4) -</sup> Lass than 500 berrols per day. NA - Not available. R - Revised date. Totals may not equal sum of compenents due to independent rounding.

See Explanatory Note 8.4.
"Italics denote preliminary data. See Explanatory Note 8.

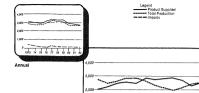
Note: Beginning in January 1981, survey forms were modified.

Geographic Coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of this section.

# Distillate Fuel Oil Supply and Disposition

(Thousand Barrels Per Davi



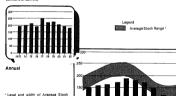
1.000

1982

Monthly

### Distillate Fuel Oil Ending Stocks





Range for distillete fuel oil is based on 3 years of data, Januery 1980-December 1982. See Explanatory Note 6.

#### Residual Fuel Oil Supply and Disposition

		Į	Si	ipply		Disp	paition	Ending Stocks
		Total Produc- tion	Imports	Stock Withdrawal <sup>2</sup>	Crude Used Directly <sup>3</sup>	Exports	Product Supplied <sup>3</sup>	
				Thousand Be	yais par Day			Millions o Barrele
1973	AVERAGE	971	1.853		17	23	2.822	63
974	AVERAGE	1,070	1,587	-17	13	14	2,838	4 50
975	AVERAGE	1,236	1,223	2	15	15	2,482	74
976	AVERAGE	1,377	1,413	5	17	12	2.801	72
977	AVERAGE	1,764	1,358	-48	13	- 6	3,071	90
978	AVERAGE	1,687	1,356	-1	13	13	3,023	90
979	AVERAGE	1,687	1,161	-15	12		2,828	94
980	AVERAGE	1,580	939	10	12	33	2,508	4 92
981	January	1,612	1,015	902	32	65	2,896	82
	Fabrusry	1.565	954	150	44	125	2,588	76
	March	1,424	699	100	49	145	2,128	76
	April	1,320	584	66	49	151	1.888	7.1
	Mary	1,223	741	-170	49	25	1.817	76
	Juna	1,232	540	201	49	78	2.037	66
	July	1,174	810	2	49	82	1.971	AF
	August	1,231	819	-179	50	69	1.852	76
	Septembar	1,292	841	=178	51	126	1.882	Ar.
	October	1,238	786	-176	54	202	1.884	80
	November	1,636	880	-49	53	202	1,909	81
		1,227			52	203 157	2,250	7/
	Dacambar AVERAGE	1,320	916 800	110 37	48	118	2,250	/6
002	January	1.235	831	301	53	235	2.185	69
000	February	1,186	956	363	53	213	2.344	58
	March	1,123	912	12	53	197	1,903	All
	April	1,123	788	150	53	234	1,903	54
					52	191		66
	May	1,128	742	-172	52 50		1,560	
	June	1,074	652	-57		217	1,501	61
	July	1,028	657	56	49	239	1,550	69
	August	965	551	203	47	235	1,531	51
	Saptamber	1,008	872	-306	44	148	1,470	62
	October	955	783	-57	43	234	1,490	64
	November	880	837	-94	43	182	1,591	66
	Dacambor	888	747	6	43	188	1,598	4 86
	AVERAGE	1,070	776	32	48	200	1,718	
1983	January	935	891	243	NA	294	1,574	81
	February	857	632	270	NA	191	1,588	53
	March	833	886	220	NA	189	1,589	46
	April	942	743	-10	NA	310	1,364	47
	May	930	709	-139	NA	190	1,310	51
	Juna	832	676	28	NA	219	1,317	50
	July*	B 771	R 682	R -58	NA.	90	R 1,308	R 52
	August**	761	827	74	NA	NA.	1,261	44
	AVERAGE	857	881	77	NA	NA	1,407	

Stocks are totals as of and of paried.

A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>8</sup> Baginning in Jenuary 1983, product supplied for residual fuel of dose not include crude oil used directly. See Explenatory Note 4.

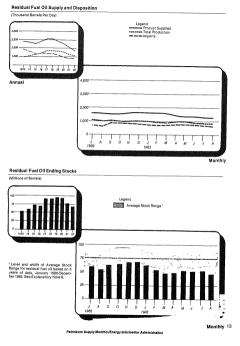
<sup>4</sup> In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk farminal and plosting surveys as a result of nationable investigation during the provious years. The major impact is on the reporting of stocks and stock withdrawals. Using the expended coverage (new besid), and of year stocks would be: 1974-76, 190-91, and 1993 are calculated.

using new hards stock levels

Totals may not equal sum of components due to independent rounding. NA = Not evaluate. R = Revised data. Son Explanatory Nota 9.4.

<sup>&</sup>quot; Italica danota praliminary data. See Explanatory Note 8. Note: Beginning in January 1981, survey forms were modified.

Geographic Coverage: The 50 United States and the District of Columbia. Sources: Sea "Sources" at the and of this section.



Liquefled Petroleum Gases Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>1</sup>		
		Total Production	importe	Stock Withdrawai <sup>2</sup>	Refinery Inputs	Exports	Product Supplied			
		Thousand Barrets per Day								
973	AVERAGE	1,600 132 -35 220 27 1,449								
974	AVERAGE	1,565	123	-38	220	25	1,406	2 113		
975	AVERAGE	1,527	112	-35	248	28	1,333	126		
976	AVERAGE	1,535	130	24	280	25	1.404	115		
977	AVERAGE	1,588	181	-56	233	18	1,422	136		
97B	AVERAGE	1,537	123	12	239	20	1,413	133		
979	AVERAGE	1,556	217	70	238	15	1,592	111		
390	AVERAGE	1,535	216	-27	233	21	1,469	2 120		
1981	Jenuary	1,617	306	363	382	21	1,913	117		
	Februery	1,593	327	173	303	21	1,769	113		
	March	1,551	280	-4	257	20	1,530	11:		
	April	1,586	214	≈236	231	28	1,308	111		
	Mey	1,587	159	-258	220	19	1,279	127		
	June	1,567	206	-208	237	24	1,304	133		
	July	1,507	213	-258	215	17	1,229	141		
	August	1,592	195	<b>-242</b>	235	149	1,180	141		
	September	1,622	198	-75	287	21	1,438	15		
	October	1,593	287	72	320	76	1,556	149		
	November	1,571	280	88	383	58	1,495	146		
	December	1,468	255	379	428	50	1,824	13		
	AVERAGE	1,571	244	-18	288	42	1,498			
882	Jenuary	1,585	314	443	391	67	1,063	12		
	February	1,468	291	243	327	51	1,821	116		
	Merch	1,544	223	211	299	74	1,615	100		
	April	1,506	188	98	257	77	1,459	10		
	May	1,585	188	-71	234	43	1,403	103		
	June	1,515	192	-88	262	106	1,254	100		
	July	1,478	227	-13	253	37	1,399	110		
	August	1,511	125	-45	254	61	1,276	111		
	September	1,538	247	37	274	85	1,483	111		
	October	1,517	194	97	306	91	1,421	10		
	November	1,542	287	175	363	37	1,583	100		
	December	1,580	258	256	396	55	1,642	3 9.		
	AVERAGE	1,528	226	111	300	66	1,499			
1983	January	1,882	240	619	313	118	2,088	8		
	February	1,580	305	94	237	76	1,836	8		
	March	1,517	186	-51	189	127	1,316	8 A		
	April	1,531	124	-107	198	118	1,232			
	May	1,545	167	-328	207	84	1,094	8		
	June	1,593	172	-333	206	59	1,169	10		
	July*	1,571	191	-206	217	55	1,284	11.		
	AVERAGE	1,589	184	-48	224	91	1,401			

Stocks are totals as of end of period.
 A negative number indicates an increase in stocks and a positive number indicates a decrease.

<sup>2</sup> A negative number indicates an increase in stocks and a positive number indicates a decrease.
3 in Jarrusy 1975, 1831, and 1893, significant numbers of new respondents were added to bulk terminal and pipeline surveys as a result of extensive investigation during the previous years. The major impact is on the regarded coverege (new basis),

end of year stocks would bit: 1974-113, 1990-128, end 1982-103. Stock withdrawais during 1975, 1991, and 1993 are calculated using new basts stock levels.

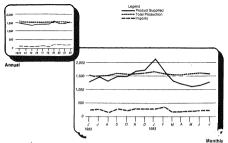
Totals may not equal sum of components due to independent rounding.

" See Explanatory Note 9.5.

Sources: See "Sources" at the end of this section.

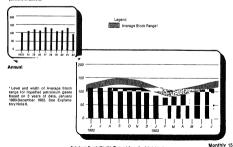
# Liquefied Petroleum Geses Supply and Disposition

(Thousand Berrels Per Day)



### Liquefied Petroleum Gases Ending Stocks





## Other Petroleum Products! Supply and Disposition

		Supply			Disposition			Ending Stocks <sup>2</sup>	
	To Prov tic	luo-	orta V	Stock /Ithdrawal <sup>p</sup>	Refinery Inputs	Exports	Products Supplied		
		Thousand Barrels per Day							
973 AVERA	OF 11	1,860 502 -9 760 188 3,							
874 AVERA			32	-28	885	174	3,123	4 218	
976 AVERA		24	77	-2	637	180	3,002	218	
978 AVERA	GE 3/	49	08	-8	524	176	3,146	220	
477 AVERA			06	-27	614	186	3.410	230	
478 AVERA	GE 4.1		88	14	492	187	3,688	228	
979 AVERA			86	-37	362	209	3,749	238	
880 AVERA			10	-23	311	198	3,834	4 247	
861 January	9,4	121	62	80	851	132	3,081	296	
February	9,7		82	-200	538	208	2,968	302	
March	9,7	22 2	30	-65	842	210	3,043	304	
April	3,7		30	24	733	192	3,040	303	
Mey	3,0		29	-58	594	238	3,231	306	
June	3.1	26 2	18	-29	856	197	3,261	308	
July	3.8	52	46	284	791	212	3,282	297	
August	3.8	78 2	76	-33	676	219	3,225	288	
Septemb	r 3.7	18 2	85	215	883	176	3,159	281	
October	3.0	03 2	41	193	710	227	3,000	285	
Novembe	r 3.0	79 2	62	33	784	164	2,936	284	
Decembe	3.0	43 2	43	71	805	223	2,829	282	
AVERA	3E 3,	39 3	28	48	723	199	3,088		
982 January	3,1		189	-7	824	180	2,831	282	
February	3,4		05	-153	663	138	2,756	287	
March	3,4		43	-191	725	181	2,631	293	
April	3,4		09	73	796	204	2,790	290	
May	3,3		18	184	824	210	2,785	285	
June	3,4		15	123	812	218	2,954	281	
July	3,6	60 4	08	-1	856	187	3,023	281	
August	3,0		48	217	743	202	3,201	274	
Septomb			75	105	749	213	3,051	271	
October	3,6		83	244	915	256	2,976	284	
Novembe			23	-28	837	269	2,785	284	
Decembe			13	358	885	275	2,842	4 253	
AVERA	3E 3,4	63 3	34	80	787	211	2,889		
983 January	3,2		97	-371	570	271	2,307	271	
February	3,2		87	-1	680	232	2,845	271	
Merch	3,4		198	-94	570	249	2,788	273	
April	3,5		77	3	596	247	2,901	273	
May	3,4		84	26	694	242	2,902	273	
Juno	3,6		27	99	716	292	3,197	270	
July*	3,7		93	108	767	209	3,237	288	
AVERA	3E 3,4	42 5	48	-34	864	249	2,855		

Includes natural geodine and isopeniane, unfractionated stream, plant condensate, other liquids; and all inhalted petroleum products except thielded motor gesoline, distillate fuel oit, reaking had oit, and iquated petroleum geses.

<sup>8</sup> Stocks are totale as of end of period. 3 A negative number indicates an increase in stocks and a positive number indicates a decrease. 4 In January 1975, 1981, and 1983, significant numbers of new respondents were added to bulk

terminal and pipeline curveys as a result of autorisive investigation during the provious years.

The mejor impact lie on the reporting of abovia and stock withdrawsis. Using the expanded coverage (new basis), and of year stocks would be: 1974-220, 1980-249, and 1982-269, Stock withdrawsis during 1975, 1991, and 1983 are opticitied using new basis stock lewsis. Totale may not equal sum of components due to independent rounding.

See Explenetory Note 9.8. Geographic Coverage: The 50 United States and the District of Columbia. Sources: See "Sources" at the end of this section.

	Algeria	Libya	Seudi Arabia	United Arab Emirates	Indonesia	tren	Nigeria	Venazue-	Other OPEC <sup>2</sup>	Total OPEC	Totel Areb OPEC
					Thouse	nd Barrols	per Day		-		
1973											
VERAGE	138	194	488	71	213	223	459	1,135	108	2,983	916
VERAGE 1976	190	4	481	74	300	499	713	979	68	3,280	76
VERAGE	282	232	715	117	390	290	782	702	122	3,601	1,380
VERAGE	432	453	1,230	254	539	293	1,025	703	134	5,088	2,424
VERAGE 1979	559	723	1,380	335	541	535	1,143	690	287	6,193	3,188
VERAGE	849	654	1,144	385	573	555	919	845	228	5,751	2,960
VERAGE	838	959	1,358	281	420	304	1,080	890	212	5,837	3,056
980 VERAGE	488	554	1,281	172	348	9	957	481	133	4,300	2,581
961											
enuary	341	500	1,284	93	424	0	808	549	27	4,127	2,210
ebruery	381	468	1,122	93	408	0	868	463	92	3,891	2,084
// derch	352	485	1,027	47	328	0	771	360	54	3,425	1,912
ipril	263	485	1,034	88	307	0	812	237	38	3,245	1,867
/ea	393	443	833	17	297	0	864	331	124	3,203	1,79
una	356	380	888	80	367	0	628	248	118	2,922	1,703
uly	333	251	1,073	60	340	0	851	468	38	3,233	1,75
(uguet	348	274	1,082	81	377	0	321	523	84	3,070	1,765
aptember	336	154	1,477	96	371	0	323	359	149	3,284	2,060
otober	242	147	1,342	90	427	0	412	388	172	3,220	1,820
lovember	210	132	1,270	112	353		517	535	58	3,184	1,724
nedmece(	176	122	1,045	158	400	0	684	411	132	3,129	1,502
VERAGE	311	319	1,129	81	368	0	620	405	90	3,323	1,846
982 anuary	254	161	A77	111	289	0	683	378	128	2,859	1,403
abruary	139	92	683	84	244	ŏ	584	355	102	2,859	1,054
farch	91	37	555	155	200	ő	522	399	81	2,287	9/0
inal	85	"	511	122	215	ŏ	427	428	85	1,871	740
tey	179	ŏ	601	118	235	ŏ	222	422	54	1,830	887
une	115	ŏ	593	94	215	72	537	381	110	2,098	820
ulv	159	ŏ	600	108	327	88	910	356	95	2,885	805
ugust	181	ŏ	459	133	271	27	574	298	133	2,107	816
lagust laptombar	179	ă	432	57	191	21	477	518	188	1,943	873
leptermen October	249	7	432	81	242	108	313	504	108	2,084	810
lovamber	247	14	489	47	283	34	479	528	116	2,235	787
lecember	155	14	237	12	285	AA	462	388	73	1,680	42
VERAGE	170	26	552	92	248	35	614	412	97	2,148	85
983											
enuary	204	0	282	47	265	43	186	324	43	1,394	533
ebruary	104	C	214	9	217	0	82	371	28	1,035	324
ferch .	63	0	103	0	138	0	121	425	173	1,023	18
iprill	228	ō	180	(*)	210	0	185	508	125	1,438	401
fey	284	0	122	12	324	37	352	444	59	1,645	410
une	300	0	175	40	502	38	402	335	148	1,838	51
uly	262	a	182	58	484	112	625	431	187	2,240	591
VERAGE	210	0	179	24	332	33	288	409	111	1,534	42

Excludes perfolium imported into the United States Indirectly from OPEC countries, primarily from Cetibboen and West European trees, as refined pelopleum products which were relited from crude oil produced in OPEC countries.
 Incidence Ecuador, Gebon, Irea, Kruwell, and Calar.
 Incidence Equality, Libya, Sauld Maclab, United Areb Eminates, Irea, Kruwell, and Calar.

<sup>3</sup> Includes Algaris, Libry, Soudi Anbia, United Aribb Emiratas, Iraq, Kuweli, and Caste (9) Loss limb 900 barrols. Totals may not squal aum of components due to Independent rounding. Totals may not squal aum of components Policial Mayor Policial Policial States of the District of Columbia. Sources: Sor Sources: Sources:

## Crude Oil and Petroleum Product Imports from Non-OPEC Sources1

	<b>Behamba</b>	Cenede	Mexico	Netherlande Antilles	Trinided and Tobago	United Kingdom	Puerto Rico <sup>2</sup>	Virgin lelanda?	Other	Total
				T	ousend B	errels per D	ay			
1973 AVERAGE	174	1,325	16	585	255	15	29	329	405	3,28
1974 AVERAGE	164	1,070		511	251		90	391	340	2,83
1976										
AVERAGE 1978	182	846	71	332	242	14	90	408	300	2,45
AVERAGE 1977	118	599	87	275	274	31	89	422	363	2,24
AVERAGE	171	817	178	211	259	128	105	468	580	2,61
1973 AVERAGE	180	487	319	226	263	190	94	429	494	2,61
1979 AVERAGE	147	539	439	231	190	202	92	431	849	2.910
1980 AVERAGE	79	455	533	225	176	176	99	399	491	2,800
	/*	400	040	220	176	176	99	388	401	2,000
1991 Jenuary	39	543	401	198	150	233	89	494	552	2.70
February	84	546	437	227	163	271	48	461	626	2,88
March	74	472	458	227	93	263	45	370	571	2,60
April	66	412	418	198	139	402	40	365	380	2,42
May luna	122	385 353	522 538	213 196	105	368 397	56 67	344 262	474 525	2,57
July	51 77	382	384	212	178	553	50	202	541	2,51
August	89	378	489	255	123	592	68	184	539	2,696
September	111	423	706	163	169	528	72	265	881	3,100
October	63	449	669	161	121	351	60	303	582	2.73
November	63	647	628	168	108	253	76	284	421	2,55
December	70	501	587	148	125	280	73	387	583	2,714
AVERAGE	74	447	522	197	133	375	82	327	834	2,672
1982	fis	513	425	179	108				452	2,47
January February	87	537	425	221	120	346 161	62 38	334 382	506	2,51
rebruery Merch	43	437	503	189	120	294	88	307	480	2,61
Martin April	62	380	478	184	166	247	38	200	690	2.50
May	77	419	786	152	85	516	47	302	607	2,981
June	32	461	797	146	129	557	58	322	708	3,231
July	64	526	763	156	118	433	38	376	696	3,20
Auguet	80	443	853	145	108	520	24	317	650	3,137
September	82	493	897	195	69	631	51	278	746	3,478
Cotober	45	459	862	148	109	666	52	282	601	3,22
November December	51 68	553 561	889 689	212 174	90	623	81	334 336	708	3,50
AVERAGE	68	492	885	176	102	438 456	48 50	316	480 627	2,96
1983										
Jenuary	66	538	849	218	73	315	40	299	588	2,98
February	92	592	722	179	81	193	80	192	554	2,65
Merch	86	488	760	167	76	240	43	182	563	2,60
April	167	452	981	218	85	421	20	163	761	3,30
May	135	601	944	153	108	483	42	236	651	3,26
June	137	578 833	831	181 191	120	424 369	48 37	252 364	712 836	3,28
AVERAGE	107	639	849	199	93	361	40	242	670	3,46

Includes petrolsum imported into the United States indirectly from OPEC countries, primarily from Ceribbaen and Wast European ereas, 44 refined

petroleum products which were refined from crude oil produced in OPEC countries.

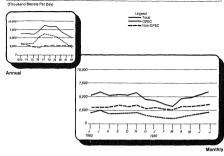
<sup>&</sup>lt;sup>2</sup> U.S. Postestions. Totals may not equal sum of components dult to independent rounding.

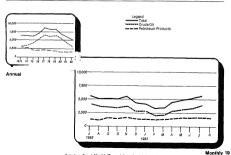
Note: Beginning in Cotober 1977, Strategic Petroleum Reserve imports are included.

Geographic coverage: The 50 United States and the District of Columbia.

Sources: See "Sources" at the end of 19% sociolor.

## Crude Oil (including SPR) and Petroleum Products Imports





## Sources

- 1973 through 1978: Bureau of Minas, U.S. Department of the Interior, Petroleum Stefement, Annuel and PAD Districts Supply/Demand, Annuel, Mineral Industry Surveye.
- 1977 through 1980: Energy information Administration, U.S. Department of Energy, Monthly Patroleum Statistics Report, (unleaded gasoline catagory).
- 1977 through 1980: Energy Information Administration, U.S. Department of Energy, Petroleum Statement, Annual and PAD Districts Supply/Damand, Annual, Energy Data Reports.
- January 1981 through Decambar 1982: Energy Information Administration, U.S. Department of Energy, Petroleum Supply Annual.
- January 1983 through July 1983: Datallad statistics in appropriate issues of the Petroleum Supply Monthly. (See Explanatory Notes 9.1 through 9.6).
- August 1983: Estimate based on EIA waskly data (except domestic crude oil production) (see Explanatory Note 1.1).
- January 1983 through August 1983: Domestic crude oil production estimate based on historical statistics from State Conservation Agencies the U.S. Geological Survey, (See Explanatory Note 3).



	Ourren	Month Thousand Barrels	Year-I	o-date Thousand Gerrels
	Thousand Barrels	per Day	Thousand Barrels	per Cay
Crude Oit (Including Lease Condensate)				
Field Production				
(1) Alaska	E 52,649	1,766	E 362,934	1,712
(2) Lower 48 States	E 215,199	6,942	E 1,474,270	8,954
(3) Total U.S	F 288,048	6,647	E 1,837,213	8,868
Net imports				
(4) Imports (Gross Excluding SPR) (8) SPR Imports	111,422	3,524	595,800 47,804	2,610
	6,490 4,494	274		172
(8) Exports	115.416	145 9.789	56,460 607,144	172 2664
Other Sources	110,416	9,789	007,144	2,044
(8) SPR Withdrawal (+) or Addition (-)	-6.106	-284	-46.845	-221
(9) Other Stock Withdrawal (+) or Addison (4)	11,865	352	8,050	26
	-2.095	-67	-14.044	-00
11) Unaccounted for 1	-2,282	-74	45,805	216
18) Trool Other Sources	-701	-22	7.034	-22
13) Grude Input to Refinence	362,768	12,347	2,437,323	11,497
(13) ~ (3) + (7) + (12)				
Natural Gas Plant Liquids (NGPL)				
14) Field Production	47 608	1.536	328 013	1547
16) Imports 2	828	27	2,537	12
161 Stock Withdrawal (+) or Addition (-) 2	-561	-18	-3.754	-18
17] Total NGPL Bupply	47,691	1,545	526,818	1,542
Other Liquids Urphished Oils and Gasteline Blanding Components, Total				
16) Slock Windrawal (+) or Addition (-)	2,023	00	-909	-4
B) Imports	8,947	206	51.641	245
(Field Production)	1,665	54	11,397	54
111 Refinery Processing Gein 1	13.570	498	99.541	470
12) Crude Oil Product Supplied	2015	85	13,686	85
23) Total Other Liquitia	27,630	691	175,558	828
(23) = (16) through (22)	27,000	Cu i	170,000	VAD
24) Total Production of Products 9	458,287	14,783	2,009,695	13,686
(24) = (10) + (17) + (20)				
Net Imports of Relined Products 3				
25) Imports (Gross)	47,313	1,526	250,469	1,323
26) Exports	13,217	428	134,260	603
27) imports (Net)	34,098	1,100	146,200	600
26) Total New Suspiv of Products	492,363	15.663	3,085,896	14,556
(28) = (24) + (27)				
Refined Products Stock Withdrawal (+) or Addition (-) 3	-30,078	-970	71,275	598
30) Total Petroleum Products Supplied for Comestic Use	462,304	14,913	3,157,170	14,092
TI) Finished Motor Gestline	202.255		1.354.164	
31) Finished Motor Gasoline	99,996 98,993	6,773 2,246	1,354,164	6,529 2,614
32) Clatitato Posi Cii	40.476	1,305	332,883	1,614
14) Liquelled Petroleum Genes	38,916	1,284	287,105	1,401
(6) Other4	100.334	3,237	605.142	2.854
IS) Crucia Cil	2.015	0,237	13,088	£,004 65
7) Total Product Bussled	462,304	14.913	3.157.171	14,892
(37) = (31) through (36)			4,101,111	
Ending Stocks, All Olis				
36) Crude Oil and Lease Condensate (Excluding SPR)	341,994	_	241.994	
(6) Stratacic Petroleum Reserve (SPR)	340,672		340,872	-
IO) Unlinished Clie	107.102		107,102	_
	41.829	-	41,629	
	15,222		15,222	
(2) Netural Gesoline and Uninections(ed Stream)				
42) Natural Gascline and Uninectionated Stream?	10,222 587,681		597.591	=

To betterning them, secured specifica, unfearlicented drivers, and plant condensate only.

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\*\*\*Indianation of the products are all the products and the products are all the products and the products are all the products and the products are all the products a

Note: Totals may not equal sum of components due to independent rounding. Sources and estimation orgonolyses: See Explanatory Notes 1, 2 and 9.7.

hoducts Applied

Crude Refinery cosses Imputs Table 3. Year-to-Date Supply and Disposition of Crude Oil and Petroleum Products, January - July 1983 (Thousand Barrels)

			KOTES					Constant		
Contractly	Produc- fon	Refranç Produc- tian	Imports	Stock With- drawal (+) or Addi- bon (-)	Unsp. counted For Coude Oth	Crude	Refinery Inputs	Baparts	Products Supplied	Ending Stocks
Grude Oil (including lease condensate)	E 1,837,213	•	643,604	-38,796	45,805	358	2,437,323	35,460	13,686	682,988
Natural Gas Liquids and LPGs	325.534	66.775	43.625	-13.535	٥	0	91.936	19.270	315.194	127.731
Natural Gasorine and Isopentane	51,825	0	938	-010	0	0	37,819	0	14,075	6.856
Unfractionated Streem	4,009	a	0	-3,340	0	a	169	0	0	7,879
Plant Condensate	3,942	٥	1,500	956	0	a	6,462	0	34	487
Liguefied Petroleum Gases	265,758	66,775	41,000	-6,781	0	a	47,469	19,270	297,105	112,480
Uhan and and and and and and and and and a	53,261	3,118	10,326	2	0	a	963	8	66,763	5,330
Propare	93,704	56,722	105/6	-071	a	0	250	11,872	146,520	50,106
Ditto	17.	0000	9,188	-6,053	0 1	0 (	27,757	7,363	17,218	22,735
Bulling-Propane Monifos	1,100	8	2,000	191		0 9	960	0 6	4,980	1,056
hobothe	19,816	184	0	-2,583	0	9 0	16,756	0 0	661	11.004
OBSE Liquids	11,387	0 0	01,000	-	9 4	0 (	017510	0 1	-31,916	146,731
Other Hydrocarbons and Abonds	700'11	0 0	0 000	9 10	0 0	0 0	21475	0	0	962
Mobile Guestine Blandon Compounds		9	A 1014	0201-		0	90,000		-19,090	40 883
Aviation Gasoline Bending Components	• 0	0	-	-	0	0	630	0	-640	511
Finished Petroleum Products	2,500	2,656,271	239,383	840,18	0	0	0	114,999	2,854,237	475,082
Finished Motor Gasoline	621	1,323,074	49093	12.724	01	0 1	0	2,043	1,334,164	160,013
Printed Leaded Moor Garosse	83	100,100	27.403	4,236	0 0	5 0		2,042	501,160	01070
Frighted University Moder Chaptering	8 1	122.273	21,084	0,480	•			0 *	782,010	01,004
Mandala Anna Lei Biod	•	46.110	9	799	•	0 0	•	80	44 967	2 8 9 3
Keromon-Type Jet Plant	-	170.911	6,111	-1.857	0	a	0	607	172.029	33,459
	22	21,929	1,397	2,268	0	0	0	96	25.440	8.534
Desilate Fuel Oil	0	270,164	34,552	54,542	0	٥	0	15,990	654,180	191,007
Residual Fusi Ol	0	164,720	145,067	16,361	0	0	0	44,258	302,080	61,868
Naphtha < 400 Deg, for Petro, Feed, Use	0	29,295	2,610	-350	0	0	0	843	20,794	222
Other Cits > 400 Deg, for Petro, Feed, Use	٥	56,270	179	¥	0	0	0	3,000	53,402	2,232
Special Naphflus	665	11,489	3,840	8	0	0	0	470	15,543	3,454
Lubricants	0	29,596	1,587	1,559	0	0	0	3,384	20,367	11,022
Wase	0	3,204	155	-101	0	o	0	141	3,117	687
Petroleum Coke	0	86,364	0	1,000,1	0	a	•	43,545	44,723	4,817
Asphalt and Road Of	0	73,825	1,317	-6.844	0	0	•	225	69,073	22,913
St# Ges	0	113,331	0	0	0	0	0	0	113,331	۰
Miscellaneous Products	785	11,656	3,276	349	0	0	•	ğ	16,631	1,570
Total	2,175,644	2,723,048	159,451	77,817	45,805	358	2,623,505	170,729	3,157,171	1,434,200

| Unexpectated for custo of 8 is a buildrong from.
| Loss than 500 barrier.
| Loss than 500 barr

			Supply				Denne	Deposition	
Commodity	Produc ton	Refinery Produc- bon	imports	Stock With- drawel (+) or Adds ton (-)	Unac counted For Chude	Crusas	Petnery Inputs	Exports	Products Supplied
Crude OT (Including tease condensate)	E 8,647	0	3,968	ā	F.		12,347	37	38
Sectional State of Section 1 and 1 min									
Marie Company and Lynna	9	200	548	Ş	0	0		5	+ 36 +
Marine Official and Department	272	•	S	7	o	c	107	•	
CHEROSOMING SEGEM.	12	0	0	-15	0		•		
Plant Condensate	×	0	*	9		•	? {		
Digusted Petroleum Gases	1,216	450	101	940		•		2	Ξ
Ethane	245	Ē	90	999		0 1	247	8	1,384
	3	1	8	2	٥	0	8	-	226
	9		N	-120	0	0	8	24	223
	98	8	33	-72	0	0	118	96	7.4
Octave-Popule Michiga	w)	43	0	7	-	•	•	•	
Ethane-Propane Modures	220	0	8	10					000
leobulane	6	9	٥	9		•	, 1		8.
						•	2	,	
Other Liquida	ž	G	260	3	٠	•	200		
Other Hydrocarbons and Alcohol	75	c	٩	1		•	28		-
	•		5			01	3	•	0
ments		•	8	6 8			7	•	ė
,		•	8	9		0	2	۰	ş
· · · · · · · · · · · · · · · · · · ·	•	9	0	7	0	0	4	0	ε
Inished Putroleum Products	=	107 64	1 010	į	•	٠	٠	į	
Philphol Moor Gasoline		1				•	•	372	12,612
		700	2	-210	0	a	•	22	6,773
Charles of Manual Manual Contract of the Contr		2000	135	5	•	0	0	23	3,022
THE PARTY OF THE P	-	3,717	162	227	0	0	0	0	3,752
TRAINS WARDEN CANCELLY	es	i.	3	**	0	0	0	0	8
appropriate 1909 and 1904	0	214	0	ş	0	c	•	ø	100
Kerosene Type Jel Puel		815	8	12	0	0	0		020
Karolesta	8	30	17	-15	0	c	•	8	2
Destlate Fuel Oil	(3)	2,900	e P	-620	0			200	3
Residual Fuel Oil	۰	12	482	3				8 8	4000
Naphtha < 400 Des for Petro, Feed, Use	•	148	5	1 9				8 4	1,000
		į	1					٥	2
Sternal Markethan		9 6		۲,			0	12	252
		8 .	•	7	0	D	•	-	E
MANAGED STREET STREET OF THE PERSON STREET	0	147	0	*	0	0	0	13	141
/B025	0	Li Ci	3	Ŷ	0	0	۰	-	
Petroleum Coke	0	457	0	2	0	c	•	020	304
Appliedt and Road Oil	0	483	2	20	0				Š
Std Gas	0	189	•			•		3	2 2
Accelaneous Products	ev	8	10	9	0			۰ د	8 4
									,
Total	10,237	13,759	5.880	-005	-74		11 200	Ġ	*****
100	10,237	13,759	5,880	-032	ř.	N	11,722		E

Table 6. Year-to-Date Daily Average Supply and Disposition of Crude Oil and Petroleum Products, January - July 1983 (Thousand Barrels per Day)

			Supply				Deaco	Discoston	
Connectity	Pead Produc- tion	Refinery Produc- bon	Imports	Stock Wath- drawall (+) or Adsh- toon (-)	Utrac- counted For Cruda Or1	Crude	Petrery Inputs	Exports	Products Supplied
Cruds Oil (Including lassa condensate)	899'9 3	۰	8/038	-163	216	ou.	11,407	Ē	8
Natural Gos Liquids and LRGs	1,536	316	300	797	٥	0	434	ā	1.46
Nebral Gasoline and loopentane	244	0	*	7	0	0	178	0	8
:	25	0.6	00	9	0	0	-;	0	
:	1 364	916	9,5	9	0 0	0 0	5	0 2	ε.
Ethans	251	9	\$	*	00	9 0	e e	100	9,8
Properio	442	286	\$	7	00	•	. 4		: 8
Bulane	803	50	43	-20	0	0	131	B	
Bularie-Proparie McQuies	•		2	es :	0	0	4	0	~
Ethane-Propase Motures	82	۰.	33	99	64	01	0	0	92
BOOTHIN	2	-	D	N.	٥	0	20	0	
Other Usu/ds	1	0	245	7	0	0	446	•	-100
Other Hydrocarbons and Alcohol	2	•	0	2	0	0	2	0	
Undhibbled Olis	0	0	214	9	0	0	276	c	-71
Avistro Gastina Mantha Componenti	00	00	8	8	00	00	ě.	00	7
				2	•	•		2	
Philahed Petroleum Products	200	12,530	22	382	01	91	01	845	13,510
Pirished Leaded Motor Gatoline	w 01	2.608	120	88	00	00	0 6	9 9	9000
au.	-	3,407	100	9	• 6	0		0	9.48
Psebed Aviation Gasoline	ev	22	-	7	0	0	0	0	-
Nephtya-Type Jet Fuel	0	813	0	?	0	0	۰	-	2
Kerosens-19po Jer Pusi	E	600	ď,	٩:	00	01	0 (		5
Diedala Puel Od	1	0 2 2 2	9	667		0 6	00	Ē	
Raindual Puti Off		120	699	1	0	0	0	303	
Naphtha < 400 Deg, for Petro Feed Use	0	136	12	7	0	0	0	•	3
Other Ots > 400 Deg. for Petro Feed Use	0	296	-	£	0	0		14	35
Special Naprimas		ž,	91	8	0	0	0	DV.	K
	0 1	140			01	01	0	9	200
Participant Color	00	2 5	- 6	e	0 0	0.0	0 4	-	-;
		444			0 6		9	9.0	
Styl Gat	0	100	0	•	00	0.0	0	- c	9.5
Macataneous Products	*	25	12	esc	0	0	0	-	1

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Table 8. PAD District I, Supply and Disposition of Grude Oil and Petroleum Products. July 1983 (Thousand Barres)

			S	Supply				g	Deposition		
Commodity	Produc- ton	Refinery Produc- ton	Imports	Stock With- or (+) Add+ fon (-)	Uras- obunted For Crude	Recepts	Crosts	Refining Inputs	Beports	Products Supplied	Ending Stocks
Crude Oil (including lease condonsate)	52,546	0	27,580	-163	-116	4,906	-	34,746		۰	16,253
Natural Gars I stridts and I. Rits	808	1.107	899	-386	c	1,693	d	89	32	3,709	5,205
ACTUAL VALUE	2	1,107	2	e e	00	089	00	88	8	3,303	618
CORT TIGOGRA	2	,	5	ř	•	•	,	ş	,	3	3
Other Liquids	116	0	2,853	607	0		۰	2,722	0	-167	17,264
Other Hydrocarbons and Alcohol	116	o	۰	ş	0	0	0	87	0	0	8
Unfinished Ots	0	0	2,572	884	0	6	0	3,365	0	8	12,455
Motor Gasoline Blending Components .	0	0	8	-183	0	0	0	310	0	423	4,713
Availor Gasoline Shinging Components	0	0	0	0	0	0	0	0	۰	0	0
Finished Petroleum Products	44	28.960	34.546	-15.335	o	72.297	۰	0	512	131,031	160,253
Phrehed Motor Gatolice	4	18.153	7.742	-2.878	۰	47.287	0	0	es	70,352	59,643
Freshart Loaded Motor Guardro	38	6.933	8.817	-1328	a	17.964	0	0	99	26,840	31,365
Finished Unleaded Motor Gasoline	19	11,223	4,432	-1,505	٥	29,343	٥	0	0	43,512	20,200
Presbud Availon Gapoline	٥	a	-	8	0	15%	0	0		305	200
Naphtha-Type Jet Puel	۰	765	0	-241	0	269	0	0	0	1,073	er)
Kensene-Type Jet Pust	0	1,113	407	656	0	8,716	0	0	0	9,307	9236
Kerosens	0	-138	888	-115	0	100	0	0	-	82	3,676
Distillate Fuel Chi.	0	3,231	7,018	-0,774	0	12,554	0	0	2	18,750	80,908
Residual Putl Of	0	2,782	18,183	-1,346	0	2,106	0	0	8	21,736	25,313
Nagetina and Crise CHS for Personnen							٠	•		400	
Feedstock	0	222	2	7		2		9 1	\$	9 8	,
Special Naphthes	0	÷	200	-101	0	É	9	0	•	000	*
(ubroarts	۰	633	138	2	0	650	0	0	202	1.188	3,178
Within	0	91	~	٠	0	-	0	•	*	102	200
Petrolisan Cole	0	1,216	0	2	0	0	0	0	ž	1,075	883
Aschalt and Road Oil and South and South State of State o	٥	3,171	382	7	۰	2	0	0	-	3,936	5,043
SHIGH	0	1.738	0	c	0	0	0	•	٥	1,738	0
Wesslangus Products	0	22	383	ş	0	223	0	0	ğ	999	344
	3 541	250 07	85.507	-15.363	-115	79,872	-	38,541	544	134.520	199,055
I COM THE PROPERTY AND THE PROPERTY AND THE PERSON NAMED AND THE PERSON	-		-								

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Table 7. PAD District II, Supply and Disposition of Crude Oil and Petroleum Products, July 1983

			S	Stock				Disc	Discontron		
Commedy	Plets Produc- ben	Refinery Produc- ton	Imparts	Stock With- drawal (+) or Addi- ton (-)	Unac counted For Course Ort	Net Pecseps	Cracks	Refinery Inputs	Esparts	Products Supplied	(Inding Studies
Crude Oil (including lease condensate)	52,159	۰	16,469	98	57,830	1,501	ŭ	88,396	8	٥	78,034
Natural Gas Liquida and LRGs Liquided Petroleum Gases Chhar Producte	8,911 8,088 843	2,306	357	-1,645 -1,695 30	000	2002	909	4,098	742	11,919	41,219 37,439 3,783
Other Linsids	376	•	812	1,448	۰	1.230	0	2.810	0	1.043	26.177
Other Hydrocarbons and Alcohol .	376	0	0	2		0	0	330	0	0	ä
Meter Gasoine Blandine Cerroments	00	00	125	736	00	9 8	00	010	00	22	7,361
Awation Gasoins Blanding Components	a	0	e	0	0	°	0	٥	0	0.	200
Enished Petroleum Products		96,623	1,259	4,105	00	21,573		ac	289	115,070	121,883
Biothart Leader Motor Concilio	3 6	87.893	23	1 38.5		2061	0		201	20,780	00,000
Finished Unbanded Motor Gasothe	0	29,007	-	-217	0	5,744	0	0	0	34,435	26,238
Philphed Avistica Gasoline	0	132	0	-145	0	630	0	0	0	212	720
Naphtha-Type Jet Fied	0	1,257	٥	403	0	22	0	0	0	766	2,322
Kerosene-Type Jet Flusi	0	0.460	0	193	0	583	0	0		6,330	7,001
National Build City	0 0	18 0081	980	4004	00	9 0 0	0 6	00	ŧ	200	1,746
Design for Other	0	0.000	272	1		910			0 6	0 480	1244
Nephtys and Other Ods for Potrochem.					,		,		,		
Foodsbook	0	972	26	0	0	58	0	0	3	67.6	250
Special Nephthes	0	403	2	117	0	130	0	٥	-	272	5
Libricants	0	744		-19	0	373	0	c	2	919	2,245
Waxe	0	\$	œ	7	0	0	0	0	-	43	8
Petrobiam Colon	0	3,202	۰	300	0	0	0	c	5	3,497	5
Appleit and Road Of	0	4,438	10	1,505	0	471	0	a	n ·	6,421	10,188
Mecellaneous Produtts	9 10	175	-10	8	00	- 19	00	50	8	17	170
	10,469	400	69069	-9 000	10.0	67.730	13	96.244	1.368	128.620	254.323

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			Su	zoh				Dance	Aspaston		
Opermodity	Produc- ton	Refracy Produc- tion	thoon	Stack With- Grawal (+) or Adda- foo (-)	Unac- counted For Crude Ori	Net Recepts	Couds	Refinery	Exports	Products Supplied	Ending Stocks
Crude Oil (Including lease condensale)	T 128,371	۰	64,558	-5,404	-28,482	15,347	٠	174,459	۰	2	494,210
Natural Gas Liquida and LIRGs Lapathal Princibum Gaste Other Productis	27,489 27,489 8,783	5,907	##°	4,567	900	44. 46.06. 5.08.5.	000	8,398 3,550 4,848 4,848	£500	23,249	77,659 65,959 10,710
Other Usukida Other Usukida Other Manyorathors and Abethel Minter Bedson Benedit Services Aukland Baseline Blending Components Aukland Baseline Blending Components	\$\$°°°	*****	3,963 3,965 138 0	\$1555 5		4,289 o	90000	5855		2,741 2,741 12	40,100 40,438 10,319 252
Finished Petrokum Products Frished Moor Glascim Fleshed Laddel Moor Gascime Fleshed Laddel Moor Gascine Fleshed Livinated Mote Gascine	2000	190,569 92,350 38,832 53,532	\$88°	\$259°	****	-98,407 -68,235 -26,212 -36,025	0000	00000	\$25°°	90,724 30,816 13,629 17,187	124,636 46,770 22,673 24,007
National Awaren Galeman Napatra-Type Jul Fuel Kensanion-Type Jul Fuel Kensanion-Type Jul Fuel	ţoon	12,236	0 2 2	11.01	0000	-10,722	000	0000	e 8	2,970	10,376
Partition Fuel CM	v = 0	10,081	2,067	2,725	.00	-10,383	00	00	žξ	0,285	13,450
Special Neptrities	020	10,837	87.8	919	000	955	000	000	68 88 88 88	1,044	1,642
Witness August and toad Ok August and toad Ok Mandalassus Podutts	00000	328 4,342 7,758 1,165	40007	. 25.1	00000	40504	00000	00000	32 00	2,604 3,667 7,758 1,141	855 678 685 867
TOTAL	163,497	195,886	71,976	-11,208	-28,482	-87,766	۰	192,635	5,760	106,529	764,615

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Table 9. PAD District IV, Supply and Disposition of Crude Oil and Petroleum Products, July 1963

			8	Supply				Conc	Descention		
Correctly	Produc- ton	Refinery Produc- bon	Imports	Stock With- drawal (+) or Addi- hon (-)	Unac counted For Crude Out	Nat Recepts	Chude	Refraery inputs	Exports	Products Supplied	Stocks
Crude Oil (including lease condonasto)	172,71	۰	1,481	1,514	-6,186	۰	٥	14,378	٥	10	13,258
Astural Gas Liquids and LRGs Ligaded Petroleum Gales . Other Products*	2,220 706 1,464	¥ 2 o	238 88	꾸무무		-1,208 -196 -1,012	000	555	000	1,007	1,100 525 888
Other Liquids Other Hydrosubors and Alcohol Moon Gasoline Sheard Components Moon Gasoline Sheard Components	0000	0000	8050	\$ 0 BE	0000	0000	0000	860 051 0 052	0000	88 org	25.27
Ariston discuss displaying components	0	0	D	0	0	0	0	0	0	0	_
1::	2000	14,861 7,382 4,511	\$55c	g 두 º 후 º	0000	\$ \$ \$ 8 8 8	0000	0000	33	15,550 7,338 4,480 2,843	11,998 2,080 1,726
washing two lot fuel	000	88	200	173	000	173	000	000	000	300	° 8;
Adroidine Type and Tubil	000	3,824	900	g - 9	000	g ° 67	000	000	0-0	33.40	20.0
Ols for	٥	350	•	8-	0	0	0	0	0	38	8
Peidskick Speak Naphtras	000	onj	21	-91	000	001	001	000	Eέ	- 01	∾ <u>E</u> ;
March March Perchan Cole Marchan and Road Of	0000	8-83	e 0 0 E	612	0000	0000	0000	0000	- o - E	27.7.2	8-55
Stil Gas Wacotaneus Protects	0-	200	£	৽য়	00	00	00	00	ε	82	- 80
Total	19,801	14,905	2,040	2,462	-6,386	-1,397	0	14,440	9	17,469	30,497

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Table 10. PAD District V, Supply and Disposition of Crude Oil and Petroleum Products, July 1983 (Thousand Berrsts)

				Strok					AND AND ADD		_
Connecty	Produc ton	Retney Produc-	mports	dament (+)	Unac counted For Oude	Net	Ouch	Refrey	Deorts	Products	Brocks Stocks
				Addi-	ā					Devotino	_
Crude Oil (Including lease condensate)	6 67,402	•	6,785	7,333	#08'9-	100.00	1	-			
Netural Cas Liquids and LRGs	* 500	:			ļ		,	0,000	4,148	1,986	1.0871
	2074	0101	8	?	•	•	•	200	999		
	9 5	1,810	17	-346	0	0		3	93	2313	2,43
	408	D	387	1	0	0	0	S	90		2,379
Other Doulds	645	•	,						•	8.00	
Other Hydrocecoms and Alpohol .		•	į	9	0	•	0	- Van	•	****	
	,		0	•	٥	0	•	080	•	2	
Motor Gazolon Renders Components		0	200	8	۰	•		3		9	
Acedian Gaseina Disposon Communication	9	0	ň	-189	٥			2		989	88.13
State of the state	0	0	0	*	0	•	0 0	ř	0	6	6,533
Finished Petroleum Products	۰						,	•	0	•	9
Financial Mater Carriers	0	74,201	1,967	-4,602	o	92.20	•	•	-		
Firming Landard Mater County	0	33,161	1,180	9119	•	200			Š	20,57	B, 30
Finished Infrastral Mater Constru	0	14,349	820	-1.201		- Sug +	•	0 0	2	33,240	21,66
Comment of the Commen	0	16,002	567	8		000	9	D	n	14,820	10.11
THE WAY OF CHICAGO	0	273	٩	1	•	963	•	0	0	18,321	11.545
Adjusted you all the second se	0	1.374			٠.	,	0	0	0	320	ē
Kerosona-Typa Jet Puel		122	•	Ş	0	246	0	0	0	1 817	1
Karcosry				9	0	357	0	۰	28	7 600	
Distribus Fuel Cal			9	7	0	0	•	٥	8		
Pandral Foot Oil	0 0	100	9	2	0	909	a	•		200	
Naththe and Other Oth for Permittee	•	9/48	ñ	185	٥	4	0		100	200	2,000
Feedstook	•								ana.		9,30
		999	0	ş	0	c	c	•	•		
Liberage.	D	901	2	9	•		•			9	ž
	۰	617	***				,	9		1,00	335
WEG95	c	9	•	•		*	0	•	39	255	1.91
į				7:	0	0	٥	•		ē	•
Asshalt and Road Or			0 1	P	0	0	٥	0	2 481	2	
	>	6,917	_	ş	٥	•	•	•			3
Modeline Designate	0	4,065	۰	0	0	0	•		• •	90,	2.34
manufacture of the second seco	٥	300	60	P,	•		•		>	4,065	0
						•	,	•	*	\$	300
DO.	89,050	76,811	13,014	2,580	200	-18.458	8	79 500	2000		
								200	2000	2000	2

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2,337 E 2,626 E 2,446 E 9,607

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2,130 1,485 11,016 7,016 64.80 81.67.4 81.68.4 81.08.7 81.08.7 £ 269,151

		PAD Deman			ľ	N ONO	ŀ	I									
Commody	Pass	Appens-		- POOR	1	1	Į	1			PAD Dehot II	Det II	l	r	0.00	0	
	ğ	6	Total	chian	ř.	Wise.	d d	Total	Tersis	Tecas	3 2	1	New		N S	7 18	United
Nithan Cas Leants				2	1	Sales	Wo	Ī	ump	Const	Sol	¥	Messico	Toron	Rocky	West	States
Natural Caralino and Incomme	448	388	839	٥	1,730	727								1		1000	1
United Spranner Spranner		9	42	•	2	á		60	20,013	3,251	7,147	946		34.245	9 9 9	1000	
Plant Condenses	00	8	ş	0	782	8	-1.487	100	1,965	2460	1,248	138	339	6,163	3	88	9779
Liquefied Patroleum Gases		,	°	0	5	8	48	9	26	13,00	ž	134		2	28	7	25
Shane	3	95	8	0	910	272	9,896	8.068	6.861	102	8	2		837	127	0	200
Propers	1	2 5	5	0	100	0	1,002	1.478	200	0.000	9000	8		7,460	98	910	37.610
Butane	ě	38	248	0	360	103	2666	2.194	0.40	5000	200	F !		5,789	æ	٥	7.886
i	5 0	3 -	•		2	8	8	1,153	1.194	9 40 6	900	197		8,853	\$85	356	13,130
Elfathe-Proporte Medunis	0	00	> <	۰,	0	0	*	*	ě	8		9 9		4.406	ñ	23.00	6,104
SOCKING GUNDON	2	ž	,	9 0	3 !	0	1,743	1,786	2,064	3.184	4	2 9		8	00	8	8
Collebora Comm.			Ş	>	40	2	88	448	300	1.240	6	200		SAV.	0	0	2,766
Finantia Peticleum Products	44	•	,	٠							5	2		2,332	0	=	2,001
Designation of the control of the co	\$	0	3	0	- 6	0 0	wo .	9	926	۰	0	*	0	-			
Floring Model Model 11	93	0	ĸ		0 <	> <		0	0	0	•	a	40	3 *	2 0	٥.	Š
Firehal Author Courts Courts	40	0	19	٥	00	> 0	9 0		0	0	0	0		۰.		0 1	R.
Nightha Tree Let Five	0	0	0	0	0	a	00	0 0	٥;	0	0	•	0	0	• •	00	9.5
Kerosena-Type Jet Fuel	0 (	0 0	0	0	0	0	0	0	30	0 0	0 1	0	0	ş	0	0	100
- 3	0	9 0	00	0	0	0	0	0	0	0 0	9 6	0 0	0	0	0	0	0
Usaliste Fuel Cal.	0	0	0 0	0 0	00	0	0	0	7	0	0	۰.	2 6	0 0	0	0	0
	٥	0		0	0	0 0	0 0	0 0	- !	0	٥	0	10	۰.	9 0	00	٠.
	0	0	0	0		0	45	0 10	9.8	0 0	0 0	01	0	126	0	0	20
Total Production	405	401	910	,						,	>	n	0	9	-	0	Ŀ
		į	200	,	5	474	6,673	NO17	00 0 mm	2 360		-					

1,086 47,626 3.258 34,535 2,235 100 Production represents quantity of natural gas processing plant colour less input to fractionismig factions.
 Source. See Explanatory Nosas on Data Collection and Estration.

Table 13. Refinery Input of Crude Oil and Petroleum Products by PAD District, July 1983

		DATE Pleased	-		DAG	PAD Detect	91.6	ĺ	L		PAD District II	anct 12			2		
Commodity	Count	dan :	Total	-poole chian	II. Kg	Wind.	King.	Total	Tesas	Court Street	3 g E	Ark La	New	Total	Rocky M	Coast Coast	Oresed States
Couche Od (including lease condensate)	32,480	1 .	34,746	۱ .	58,306	8,665 20,269	20,269	88,386	15,407	50,072	56,901	5,454	2,425	174,459 14,375	14,375	70,820	382,786
secural Gas Liquids	8	•		•	99	8	á	1.663	1,398	2.294	338	4	98	191,	20	270	1,036
Natural Geodesia and Expedition	9 =		0	0	0	0	0	0	0	0	0	0	0	0	0	0	۰:
Plant Conference	0		0	0	ş	0	80	112	0	617	•	9	0 9	200	8 5	9	200
Liquefied Petroleum Gases	z		8	8	1,483	8	8	2,400	200	9	2	9 0	8 4	3,000	y C	°	38
Etiene	0 (		0 6	90	×		0 0	* 12	0	- 14	4	0	0	15	12	**	ä
Propane	0 6			8	g g	218	900	1,105	102	100	570	10	٥	2,118	178	33	3,880
Braza-Drossa Mrauss	• •		0	0	*	0	0		0		102	0	-	Ē.	8	89	278
Ethane Propaine Medaritis	0 5	00	06	0 9	789	0 5	0 8	1259	376	8	36.0	5.0	9 6	1,126	9	3	2,883
Ther Linids										1		•	٠	8	•		1 030
Other Hydrocarbons and Alcohol	13	0	6	۰;	8	0 7	2	2 2	200	222	ŝ	12.0	140	8.178	8	333	12.977
Unshighed Oil (net)	2226	ş	3388	7	ê	ß	8	8	3	9		1	ŧ				
Motor Gasoline Dending Components (760)	207	Ş	310	*	878	ş	8	1,763	989	2	878	47	80	70	ž	ş	1,984
Avanua Gasoline Blending Components theil	۰	٥	0	0	¥	0	-93	0	4	0	ş	0	0	æ	0	*	ŝ
Total Input to Refinefine	38,273	2288	35	1,155	36,19	9006	23,463	95,244	16,558	104,142	63,240	5,882	2704	182,635	14,440	72,106	412,900
Crude Oil Distillation Strees Input (citil) swiftigis) Operation Capacity (citil) swittigis) Operating Radio (percentif) ————————————————————————————————————	925	£\$3	\$ 25 E	886	2,551 81.0 81.0	288	138	3,865	812 817 817	3,104 4,042 78.8	1,895 2,877 515.9	88 88	107 74.2	5,777 7,832 72.8	8 8 5	2,30 9,118 8,27	12,586 16,024 74.9
Crude Of Qualifier Suffer Content, Westfood Average (percent) API Granty, Wegthind Average	28	4,63	31.97	36.86	8 2	30.88	87.78	8.5	87.78	35.23	34.07	154	8	***	35 17		33.35
Operable Capacity (daily average) Operating	1,286	\$ 5 2	18 E	880	25. 15. E	880	255	3,585	288	3,602	282	8 2 2	0 to 0	1,342	50.8	2,637	14,387 2,237

<sup>1</sup> Reprisestra pross Input divided by operable catestry: Note: Total may not equal sum of components due to molphorident rounding. Source: See Explanatory Notes on Deta Collection and Extrastori.

fable 14. Refinery Production of Petroleum Products by PAD District, July 1983 (Thossand Barrels)

Constrodty	Pass	2000		700		1											
	Sea	of the same	Total		, <u>k</u>	Wes	Kara	Total	Total	Gut	58	No Lis.	New	Total	.≥ >	West	United
I musiked Bodson Casses										1	200	ĺ		1	9	Coast	į
For Pattochinesed Fourthook Lies	200	2.	1,107	22	1,645	135	445	2,336	182	2,840	2,703	77	100	5,007	***	1.610	
For Other Uses	8 2	9	35	0;	17	~	8	343	36	1,376	1,305	o	9	2.75	1	200	9.5
Eneme		9 0	8.	4.	1,386	22	372	900,	148	1,465	1,393	89	8	318	148	1	100
For Perceptencial Featherest thes		9	0 1		3	0	0	٥	0	287	10	0	d	567		ľ	
For Other Uses.		00	9 0	٥.	01	0	0	0	0	300	~	0	0	333	0	•	38
Property	2	9		9	9	0	0	0	0	282	10	a	c	300		,	3 8
For Petrochemical Revisions Uses	10.0	9 <	9	8	1,57	185	ž	2,316	202	2,238	1,460	99	25	4010	2	8	15
For Other Uses			e i	9	ŝ.		\$	274	ĸ	1,005	150	0	0	38	0	Š	000
Button	700	2 4	3 :	8	S.	186	465	2,042	ř	1,233	1,251	90	25	2,23	2	ì	
thirthern.		0 1	2	0	ş	0	-83	-72	\$	ş	1,237	100	E	1 200	2.7	2	000
For Other Hose	82	0 0	2 :	0.	0	-	a	-	0	4	700	۰	9	1.167	•	3 5	
Sections.		0 1	ă.	9	2	90	-67	-78	-58	-30	133	*	ě	90	,	2	(
though 1 has	9 4	0 1	0	0	ę	0	٠	٩	~	78			18	2 2	į	9 :	\$ 5
For Other Lines	9	•	0	0	0	0	a	٥	a	ď	c		ļ	•	,	5 '	2
Designation for Date Co. of the co.	0	0	0	0	eș	0	v	7	۰	2	4	•		,	,	9	
Dichard Mater County	0	0	0	0	ę.	0	Ģ	R			0	* <	9 <	82	7	5	-
Transport of the Party of the P	17,385	260	18,153	834	37,148	4.827	14,130	56,790	8.438	40.000	24 000		,	2	1		50
Charles Labora Motor Galloure	6,553	27.7	6,830	333	16,400	2,568	8.462	27.800	4000	20.100	42,746		90	200	7.985	24,151	
Constitution of the Consti	10,032	36	1,23	ž	20,648	2220	5,668	28.607	888	28.86	700	15	3 5	99,010	10.0	4.363	2
Modelle Terr to Calculate	•	0	•	0	107	٥	8	2	,	250	9	700	3	2000	2,77	10,000	523
and the second s	8	45	245	2	35	104	391	1 247	203	o o	1	3	2	900		N.	2
Varioustian 1904 Off Fulls	27.	0	1,513	2	2,544	431	435	3.600	200	200	2003	8	8 8	70000	9	1,374	ş
Configuration Control of the Control	ş	ž	-138	*	123		8	i.	E	1 340	9		ğ,	9000	9	5	Ñ.
Bushes Coll City	930	ğ	123	565	11,153	1,903	8,559	18.936	3.624	20.211	11 260	4 030	3.00	ij	350	2 1	2.49
Madella - 400 Dec College	2,73	8	2 780	8	1,336	216	332	8	900	7,008	2,160	196	11	10.00	900	(4.5	2000
Chec On a 400 Dec Total Control (166	361	0	8	0	E	0	5	834	96	2.622	8	Ş	9 0	9 9 9 9	400	0,740	į
Court of the Long For Posts, Feed Ups	0	0	0	0	137	0	-	138	315	4 9651	0 480	9		1	0	2	9
Charles Indiana	9	8	Ģ	o	28	G	185	461	18	1000	8	130			9 10		ģ
West and a second secon	28	375	8	0	417	0	327	744		2	100	986		2000	0 8	8	1.87
Designation Color	8	۶	ä	0	4	0	36	4	000	2	5	38		4,10	8 *	į	4.07
Manager Conv.	188	96	1,215	12	2,233	ä	099	3,202	333	260	200	88	÷	400	0 8	3	3
Control	\$	0	446	0	1,230	22	449	1,851	ä	1,000	1069	2.5	4 <		300	200	20.00
Additional Proof Co.	3	9	ē	22	1,000	125	212	1351	23	1,544	88	g	ç	300	2 5	26	9
CHARLE AND TOUR OIL	3,087	6	3,171	202	2,778	950	603	4.430	650	210	1 040				2	0	e n
ON OR	1,653	88	1,738	Ä	2,984	8	919	3.434	100	4 500	0.00		2 2		Ž	200	2
For Perochitman Feedstock Use	196	0	186	0		0	o	-	*	446	Š	ŝ	8 9	80.	8	4,055	18.03
For Other Uses	1,467	8	1,562	34	2,683	351	010	0.000	,	1		2	9	430	8	8	E
Misoellaneous Products	8	43	Я	e.	101	×	97	3	3		200	3	8	700	202	3,993	17,262
Fuel Use	*	25	2	ď	-	9	ŗ	2 0	8 <	28	000	9	0	1,163	9	8	2.
Nen-Fuel Use	102	36	8		ě	,		1	,	G.	ò	0	0	320	*	8	e
					3	3	9	ò	8	987	4	ą.	0	200	2	167	2
letal Production	37,870	ŝ	40,087	1,182	64,185	1000	24,261	98,929	16,447 106,169		85.642	5,905	2,739	196,826	14,805	75,811 425,538	625.553
Processing Gain(-) or Loss(+)1	-1,597	- 19	-1,556	ę,	2,821	1237	-798	-3.685	213	2000	101.0	ş	\$		-	-	
											0000	ş	Ŷ	69	ê	5,703 -13,570	13,57

	ď	PAD District	-		84	PAD District	-				PAD D	PAD District 11			976		L
Commodity	Court	Appeals- chan	Total	Appeter chean	H. Ry.	Menn. West.	K See	Total	Tesas Inland	Constitution of the consti	229	å,¥	Now	Total	Pool iv		Strike
Inwheel Motor Geograp?	47.3	33.2	46.5	523	58.1	419	98	267	47.3	446	47.9	27.5	38.6	45.4	69	453	48
Respect Aviston Garoline	0	9	9	9	-	٩	6	-		r.	19	0	0	ry	n	*	2
Refresy Garee	25	49	5	2.4	5.8	22	2.1	2.6	12	5.9	4.5	4	7	32	0	23	28
	30	30	20	2	2	20	œ.	7	4.5	9	9	30	200	1.6	20	9	13
	33	0	23	12	*	40	2.3	97	4.6	97	ŝ	-	20	6.7	9	901	89
		49	17	13	Ŋ	-	e4	ee	-	0	100	0	0	2	٩	01	4
Selfate Fast Oil	22.2	27.9	8	24.3	19.2	22.	284	215	332	20.3	18.7	282	28.2	8	28.3	160	20.4
	7.6	2.4	73	\$	23	52	1.6	2	3.6	2.0	36	4.7	1.6	50	2.6	123	9
softba < 400 Dec. F. Pego Feed Use	10	٥	9	•		0	en	đ	99	20	4	2	0	18	0	٠.	2
her Ols > 400 Dea F. Petro, Feed Use	9	0	o,	0	69	0	9	74	7	4.0	ņ	0	0	÷	0	•	2
Conclet Nephther	9	1.5	-	0	υģ	•	æ	40	-	Ξ	0	26	0		0	-	*
decisits	4	16.7	17	0	-	0	1.5	9	9	18	Ξ	63	0	20	64	٠	12
	-	61	۲	0	0	۰	٩	-	-	9	04	10	a	e	*	-	*
Seminer Colm	33		3.2	;	38	34	33	36	4	5.6	35	17	S	27	23	20	33
others and Road Col	970	339	83	96	4.8	601	ຊ	3	÷	9	33	18.4	**	2	6.9	33	38
Still Gast	4.6	98	46	33	9*	37	4.4	9.9	30	979	7	37	1.9	62	3.8	67	46
Ascelarecus Products		G	es.	4	ev	09	eq	oj	4.	2	9	8	0	9	w	69	4
Processing Garn(-) or Loss(+)*	7	4	7	-27	49	-2.7	98	Ÿ	60	-20	Ŷ	7	7	-53	-2.6	9	\$

<sup>1</sup> Based to study of the first and service of the first of

Table 16, Imports of Crude Oil and Petroleum Products by PAD District, July 1983 (Thousand Berrels)

Commonth			Petroleum Administration for Defense Degress	o for Defense Demots		
A	-	-	H	2	^	Total
Crude Oil (including lease condunists) 1.2	27,589	18,400	64,550	1007	9,765	119,813
Natural Gar Liquids	200	4.760	700	240	oto	0.70
Natural Castofine and Inconstants	10.5	2	<b>5</b> °	200	070	200
	2	• •	, .	9	3	
The Coases	- 60	1361	ď	1		
	•	200	5	800	9.	200
		200		9	,	500
	3 1		01	0	9	
	5	7	9	20	2/2	1,14
Ethano-hopera Mataria	00	1,120	a c			284
		-				
Other Liquids 1.	2,853	802	3,503	23	1,102	8,347
University Old 1	2,572	45	3,365	63	8E2	7.53
Motor Gasoline Blending Components	261	ş	138	۰	1961	8
Aviston Gazolne Blanding Components	0	0	0	0	0	
Dollahard Dedrodes on Ducchards	*****	****	, ,		*****	-
Fielded Meter Canadra	2770	101	100	9 8	1,000	0.000
Finched Loaded Mater Charden	244.6	ā	3	2,8	200	
	4.470		3		107	100
		• 6		,	ř	2000
	- 6	• =	• •	• •	• •	
	407		116	. 0	161	899
	٥	·a	•	. 0	٥	
Opport	403	٥	116	•	161	100
Karosens	200	0	240	٥	ę	2
Deatlase Fuel Cil.	7,018	380	459	is a	22	8,016
Borded Ships Burkers	0	0	•	•	•	
CDR	7,018	986	489	G	20	8,01
Residual Fuel Oil	18,193	545	2,067	10	354	21,154
Bonded Shop Butters	0	0	٥	۰	0	
	18,193	949	2,067	40	354	21,15
No. for Patro Foed Use	34	S	353	0	0	8
	3	3	۰	٥	0	8
Special Naphthes	83	2	277	3	32	4
Libricaria	128		38	8	115	ā
Water and the second of the se	~	e.	ev	0		*
Asphalt and Road Oil service in the second service ser	382	10	0	0	7	S
Misoellaneous Products	282	~	12	8		2

Clode to land untrembal cits are reported by the PAD Dispata In which flowy and contained and contai

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1863 (Thousand Barrels)

B Drieses	000000 0000000 00	200505 0040045	88			101011							
AN A	000000 0000000 00	999998 99899				All Prop.	All PAD Dispicts						
do OPEC	00000 0000000 00	008.8 0040086 0		o	0	0	652	5	٥	0	1,000	8.73	385
ab OPEC	0006 0060000 00			0	G	0	a	0	c	0		1,910	8
M CPEC		8.8 00400¥6 0		0	0	0	0	488	G	0	987	8	£
No OPEC	00 000000 00	. 340046 3		0	0	0	0	0	0	£	230	5634	182
Nr OPEC		6446		9 0	0 0	0 (	0 8	0	0 1	8	986	1,800	38
Ner OPEC	0000000 00	9990988		2	•	2	ğ	3	•	ŝ	Š	5000	Š
111111i													
Ш		40085	0 0	0 0	0 0	0 0	0 (	ğ.	6	0	28	2,352	je ;
Ші		10088	9 0	-	0 0	0	0 0	9	5 6	0	0	00	8
III	1000 00				0	•		į		è	9	14,392	Į.
lli -	100 00	. E. C.	0 0	0 0	0	0 0	9 0	00	00		0 0	98	25
i		E °	,	90:	•	9	,	1	9 4		N	000	g
	0.0	G	0	280	0	12	12	4.430	00	2000	9,548	50,877	£ £
	00	G											
1918 3,181	0		G	c	6	0	0	900	0	0	308	3.487	112
		500	0	0	0	ž	0	983	0	235	2,148	2,148	s
	o	0	0	0	0	0	0	٥	0	0	0	247	œ
	0	0	0	1,008	0	0	0	338	0	60		1,344	9
	0	0	•	•	0	0	0	0	o	۰		661	9
	5,641	25	125	503	0	5	1,049	1,064	2	ñ		9020	930
Corgo	o	0	0	0	۰	0	0	0	0	0		1,672	2
-	0	0	0	0	0	0	0	•	٥	•	0	302	Ξ
10000	0 0	0 4	00	٠;	01	0	0	0	0	ε	£	ε	Ē
O CO	è		9	8 }				3		0	6	200	*
	ő,	9	900		9	Ē		818	- :	= :	1708	25,305	200
MUNICIPAL STATE OF THE PARTY OF	E	200	3,	45	0	0	470	9	ę.	9	1,820	1,629	8
	0 0	N.	0	E	81		,	000		Sma	20,00	2000	6
	0		9 4			0 1					9	3,105	200
		'n	9	1	0			91	0	9		1,482	9
Michael of Cristal		8	5/3	100	0		0	9		0	2	988	R
- CO CO.	0	9	9	9	0	0		e e	9	0	200	200	2
"uerto Hico	0		Б	ž	0	8	o	0	142	283	13	121	8
;	a	0	0	738	•	0	ŝ	0	0	0	968	999	8
900	0	0	0	ь	0	0	0	Ş	0	0	242	3,208	8
John Kingdom 10,732	0	183	0	808	0	۰	0	88	0	2	889	11,430	369
	c	2715	0	2325	407	0	2.468	3.863	0	6	1120	11.279	7%
900+	•		•	•	c	•	•	•	•	•	•	4 705	8
Other Whiteless	•	,	•		٠	•	٠		•	•	•	on the	3
deministra	c	W	91	c	•	•	ç	1 500	c	•			9
Laurenbern 1	9 0	Š	400	92	÷		2 8	2010	'n	* *	0.00	900	3 5
Substant Other	5693	6.368	8 8	7818	968	8	480	15,875	44.8	1016	44.500	100.000	200
		ļ								,			-
Folsi Imports 159.912	2,805	7.438	808	9.203	855	828	81018	21.154	445	2 181	58.488	125,389	6 890

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (continued)

Source	Sud 2 G	25	Olis Olis Olis	Gasokhe Blending Compo- nants	Fireshed Motor Gesolme	43	Kerp	Page Or Residen	o 7st	Special	Production of the contract of	Prods acts	Total Petro- leum	Total (Daily Average)
							PADD	PAD District /						
Again OPEC Again Araba Sauta Araba	1,590	000	°g°		000	000	000	300	ğ°°	900	ê	800	2,728	83:
Subtool Arab OPEC	9,319	00	3°	33		0	0	225	35.	• •	88	-	181	188
Other OPEC	•	•	•	•		•			9	•	•	9	100	•
Gabon	827	00	00	00	00	0	00	0	90	00	00	90	627	2
ridoneeaa	25.5	00	00	00	00	00	00	00	00	00	00	00	25	25
NgMa	1,405	0.0	00	00	1,108	00	00	1961	3.860	00		6355	1,405	\$ 5
ner OPEO	0,570	0	0	0	1,104	0	٥	1,967	3,395	٥	ε	0.484	15,065	486
Street	9.100	0	0	0	. •	e	0	۰	908		۰	300	2.408	7.
abamas	0		0	0	0	0	ž	0	000		-	025	828	27
Brital	0 8	969	00	00	800	00	0 5	0 100	929		e*	1,346	2,609	7.5
Cont	200	10	00	0	°	0	•	°	,		0	۰	305	=
France	0	00	00	0	0 8	00	00	0 0	9		ε	2	£3	8
Nethadanda	0	8	0	0	916	0	0	Ş	٥			1,406	907	4
Vetherlands Antibes	٥	0	1,572	0	8	0	0	Ę,	3,654		285	5,000	6,883	9
Norway	181.5	00	00	00	00	0 0	00	00	00	0	0 0	0	610	2.5
NAV.	383	0	0	0		0	0	0	9.0	0	٥	926	1,369	2
Puerto fleco	0	0	230	0	200	0 (	2	0	0 4	2 9	22 0	1,017	7,017	25
Created and Tobason	440	0.0	00	00	80	00	0 0	Ň	200	0	00	942	999	8
Unded Kingdom	4,132	0	0	0	503	0	0	0	586	0	8	494	4,636	140
Argin Islands	°ž.	00	80	00	2,325	6	00	2,468	880	00	00	80	ž Š	ă
Differ Western Hemisphere	0	۰	٥	0	٥	0		٥	1,692	۰	0	1,562	1,692	8
Other Eastern Hornisphere Substant Other	15,590	257	2302	ž	6,641	407	0 0	4,385	1,691	3	588	20,646	45,334	1,482
fetal Imports	27,580	227	2,572	201	7,749	407	390	7,018	18,193	ě	1,133	37,967	66,547	2,134
							PAD Detrict 19	strict th					Ì	-
Arab OPEC	900	1	1			1	9		٩	۰	0	0	8	2
hring.	1,876	000	000					00		00	.00	00	2,795	22

Table 17. Imports Of Crude Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrets)

Note	Source	2.0 2.0	g	Operation of the party of the p	Gasoline Blending Compo- nents	Finshed Motor Gazolne	2 P. S.	Kero- serse	2 2 2	2 1 2	Special	Prod-	Protsi Prod- ucits	Total Petro-	Total (Dash) Average)
Compared   Compared								PAG	Material III						
	. Ollo														
1	Par	482	0	•		0	0			0	0	0 0		ş (	2:
	Nom	ę	0	• !		0	0 0			0 0		0 0		2 2	2 2
Column   C	Venezusia	ŝ	0 1	Ç							•	0 0		100	1 57
1	Subsotal Other OPEC	1,180	•	477		•	•			•	•	•			
100   100	. apar														
	Canada	6.83	£.	8										98	
No. 10   N	Congo	8	•	0								2		8	
	France	•	0 1	0								2	1	2.178	
100   100	Merico	2,178	0									*	94	18	
	Netherlands	•	•	0 0								3	2	830	
	Omen	8												436	
	Trividad and Tobago	8 1	0 0	0 0										32	
1   1   1   1   1   1   1   1   1   1	United Ningson	Š	•	•											
Note   1	Manipoleon	140	۰	۰			۰			0	0				'n
100   100	Other Eartern Homershare	888	0	٥			0			0	0				24
140	Sebretal Other	12,634	4,753	8	Ì	-	۰			8	3			_	25
1   1   1   1   1   1   1   1   1   1										,		8		40.00	240
NOTICE   N	otal Imports	16,409	4,753	229		8	•			ŝ	ž	Š	-	23,250	ŧ
								PAD	Servet III						
	AND OPEC	1007	·	ľ		•				۰					
	Vigera			•						0					
				0		0				458			•		
	Carrie Arabas	377	0	۰		٥				•					
	1 leited Arch Emerator	123	0	۰		•				٥					
1	Subtotal Areta OPEC	9,903	0	•		0				-			•		
	When OBS?														•
	Founder	1.081	٥	٥											3 4
	Carbon	301	۰	0											*
	Indepasie	2.720	0	٥											2 2
	in a	2.480	0	0											
		14.359	۰	0											•
2000 0 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ı		•	cyc											٥
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Substal Other OPEC	22,938		82											3
100   100															
100 100 100 100 100 100 100 100 100 100	Annual	1,000	0	۰											
802 0 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	١,	0	0	360											
615 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		800	0	4											
6) 6) 6) 0 0 0 0 0 0 0		213	c	٥											
	Corpo			-									2		

Table 17. Imports Of Cruds Oil and Petroleum Products by Source and PAD District, July 1983 (Thousand Barrels)

Comparison   Com															֡
1,000   10   10   10   10   10   10	Scure	55 55 55	8	Grand Spending Spend Spending Spending Spending Spending Spending Spending Spending Spending Spending Spending Spending Spending Spending Spending	Gazolne Blantna Compo- nents	Fnighted Motor Gasoline	# 18	Nero-	888	27.5	Special		Produ Produ	Total Piero- leum	Total (Day) Average)
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,								PAD De	shet II		1				-
	× 1	000001	ě		1	1	:			,			1		
Company   Comp	- spur	0	ę°	00				3	. 0	20	- 8	N S	9 9	19,720	8
	Maria maria	1,014	0 0	a 6	00	0 6	06		00	04	01	0	0	1,014	g:
Company   Comp	uerto Paco	•	0	0	0	. 0	0		• •	0 0	2	9 6	2	2 2	**
	midad and Tobago	582,	0	۰	0	e.	0		0	0	a	a	0	1,785	8
		g,	0 0	1.816	00	0 a	00		a c	0 8	00	200	304	8,012	ğr
	10	362	0	a	a	a	0		0	°	• •	a	•	ñ	Ξ
	Homsphare		0	2		0	۰	٥	2	٥	•	4	8	8	-
	her Eastern Hernsphere	ě	•	2			0		0	0	R	7	318	2	8
	-		ă,	3,112		3	30	3	9	503	27	370	4,997	26,724	1,185
No Control   No	of Imports	64,959	N.	3,385	138	8	Ē	240	459	2,067	52	37.1	7,317	71,976	2,322
								PAD Des	anet IV						
Column   C	da Otal Other	1997	88	13 13	••	ee	00		68	10.10	33	88	22	2,040	88
Note   Part	il Imports	1,481	ŝ	87	۰	ts.	۰	۰	6	8	ε	8	25	2,040	8
							-	PAD De	V tomb						
	- OMO G		••	00	00	••	00	00	00	00	••	00	00	88	2.0
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	er OPIIC	380	c	•	•	•	۰	۰	•	c	c	-	c	COL	13
2	Outral	7,839	0	2	0	277	0	0	0	8	0	387	ž	8,633	278
2		8 5	00	o ģ	00	°£	00	00	00	o 2	00	380	o ž	9,336	- 6
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7															
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7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Trial .	200	8	9 6		200	> «		0 0	0	9 5	9		2	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	dentin	0	٥	0		2			0	ş	c	9		138	
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0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Darlands Artifles	0	0	0	0	0	£		0	0	٥	٥		53	
27 27 0 0 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	opio's Republic of China	0	0	8	S	485	0		0	0	۰	•		988	
0 70 274 10 311 3004 3579 10 0 0 70 274 10 277 3420 11514 4	ero raco.			9	,	9	9		,	9		3		ž,	
0 70 354 16 257 3620 11,014	blots Other	3	\$	8	ž	8	ž		2 2	ă	g	3.5	***	3	
Includes on a ground of a strong or face proper include a strong or strong o	il Imports	2,785	\$	ž.	38	1,186	3	0	2	38	ş		8	13,814	430
in the control of the control of the sample of the sample of the control response in the control of the control				ŀ	ŀ		l	1	l	١					
Logic than (NO between 5 and 10 and 1	Includes aviation gasoli includes aviation gasoli athas less than 400 degr	A. Warete, B ness F, other	sphort, lubn ods greebn	Carts, rust r them 400	and gesofine depreses F a	Soperten ynd mesostile	A plent cor	deniste.							
The local state of the state of	Ander Trible may not obtain	Total of the													

Table 18, Exports Of Crude Oil And Petroleum Products By PAD District, July 1983

		Petroleur	Petroleum Admeristration for Determine Districts	in for Deferred	Districts	
Commons	-	=	=	2	>	Total
Ouds Oil (including lease condensate) 1	۰	346	0	٥	4,148	4,494
Josephod Potrokum Gastes	35	742	282	•	128	1691
	g	25		•	9	e a
	19	281	388	0	19	780
Bulling	22	431	383	•	7.4	912
Butanti-Propane Motures	0	0	0	۰	0	0
friethed Motor Gasoline	n	107	454	8	8	505
daphtha-Type Jet Fuel	0	0	8		0	2
Corpositio-Type Jet Fuel	0	a	0	٥	37	37
ANDREAS	-	3	8	-	(8)	**
Assitate Fuel Oil	2	0	391	0	1,226	1,605
	8	0	844	0	1.960	2,795
Naphtha < 400 Deg. for Putnomern, Feedstock	ě	•	101	(6)	9	146
Other Oils > 400 Deg. for Potrochern, Feedstock	0	8	220		_	367
pedal Naphrhas	0	-	8	Ξ	-	39
Appends	163	10	969	-	30	577
Water and the second se	+	-	80	9		27
Netroberm Color	22	5	2,477	-	2.461	6.253
Aghat	-	e.	(2)	8		
Alaceliahagus Products	9	â	•	9	*	24
Total Picduck Exports	ž	1,022	6,760		5,007	19,217
Total Daniele	***	1.060	6 700		10.001	

Debots of colors are perchanted by an interest, processed are despended in the percentage of the perce

	5	8	Gasolne	ž.	ō	ē	Nephthas	cants	Waters	E 8	Asprair	300	100	Average
needlee		٠	•	•		•	,	1		1				
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harman	•	- :		> 0	9	5	2		ε	9		ε	S,	2
Dahala	> 0	4	-		6	•			0	0	a	ε	83	m
The state of the s	•	•		•			•	ε	•	0		0	n	Ε
AND THE CHARLES OF THE COLUMN	•	3	0	0	0	0	•	37	Ē	æ	ε	ε	46	-
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Canada	346	751	130	٥		٥	e	62		910	•	a a	4.810	0
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			0	•	0	0	**	-	ε	ε		o.	10	ε
HER PAGE STATE	0	o	0	0	0	0	ε	*	ε	0	ε	e	0	3
Jenmerk	0	c	0	0	0	0		ε	ε	c		8	8	8
Seminican República	0	9	0	0	o	0	8					8		
Cuartor	•	78	707	•	240				,	2 6		E	8	• !
	•		'n	•	ì		•	-	ε	0	0	ε	Ogo	8
0.00		1		9	0	0		ε	0	٥	0	-	-	3
Galvacia		2	0	0	٥	0	£	~	0	٥	0	ε	45	ε
WANT - COLUMN	0	0	0	0	0	0	0	ε	ε	•	•	8	8	8
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74036	0	•	0	0	0	0	0	2	a	78	0	8	7.7	
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Pacific Trust Terr.	0	0	•	0	0	0	0	8		0	0	٥	ε	COST
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THE PERSON NAMED IN COLUMN NAM	>	•	>	>	ε	>	£	0	8	-	D	*	N	ε

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evodebug	0	۰	0	٥	٥	٥	8	2	8	8	(4)	en
Spain	0	ε	0	٥	0	635	۰	ε	ε	1,007	8	2
Semism	0		0	6	•	0	۰	-	•	20	0	8
Swoden	0	6	0	0	•	0	0	-	ε	8	0	8
Switzerland	0	ε	0	٥	0	0	6	Ξ	٥	88	0	-
Theight	0		0	0	0	۰	-	11	ε	0	0	_
forecast and Tobaso	٥	-	0	٥	0	٥	0	ε	ε	0	8	۰
urbay	0	0	•	0	۰	0	۰	Ξ	8	0		19
Inted And Emerges	0	ε	0	۰	۰	۰	0		۰	8	۰	8
Johns Kngdom	0	e	0	0	•	•	0	S	ε	0	£	-
A\$\$R.	0	0	0	•	۰	•	0	8	۰	0	0	
August	0	0	0	0	0	0	0	-	ε	0	0	8
Venezuela	٥	8	۰	0	•	0	*	ε	ε	8	0	
Ann Islands	2,018	22	0	0	•	344	0	•	٥	0	0	۰
West Germany	•	8	0	٥	3	0	0		ε	22	•	~
Posteliana	0	•	0	٥		0	0	0	٥	33		8
Other	8	8	,-	0	~	۰	ε	ç		82	8	-
Total	4,694	1,691	568	33	1,695	2,756	35	577	22	5,253		8

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82,688

0,255 0,255 0,255 0,255 0,255 11,304 98,160 12,020 12,499 12,499 15,520 1,520

Table 20. Stocks of Cnude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (confinence)

	ê	DATE CHANGE	Ī.		1	DAD Densey II		r			Dan Detroit III	1	l	ľ	GAR	940	
Commodity	Court	Appa- lach- an Et-	Total	Appa- lech- an #2	1,5	Mms. Wec.	New of	Total	Tenas	Page Page Court in	Const	-	Menden	Total	Rocky NR.	See Comment	States
base Natural Gas Processing Plant Total	٥١	١	0.0	°ı	N I	°ı	۰,	2002		- 1	١	°ı	"	2,285.		00	8,330
ropane for Petrochemical Feedstock Use Referey. Bulk Terminal Picture Figure Gas Processing Plant	"   1 °	°ıı°ı	gooog	°ı°ı	8 1 0 1	°ıı°ı	-   1°	20002	"  °	`   °	8 11°1	°11°1	°ıı°ı	80008	00000	00000	80008
ropane For Other Uses Refricey Bell's Terminal Poeline Nearest Gase Proceeding Fast	\$ 1181	" I I <sup>®</sup> I	2,48 2,732 1,15 1,00 1,00 1,00 1,00 1,00 1,00 1,00	4 .0	21121	# 11 # I	8 1 1 2 1	1,436 17,670 2,849 188 144	4   1 4	387.1 1 28 1	§ 1181	41121	, 11 g 1	20,00 21,10 21,10 101,10	Fr. 28	P8.88	4,857 45,745 6,754 1,544 8,900
utane For Petro. Feed Use Raffiesy Buth Terminal Physics Physics Physics Total	°ıı°ı	°ıı°ı	00000	°ıı°ı	°ı°ı	"   "	°ıı°ı	00000	١١١١١	2 1 0	١١١١١	"   °	١١١١١	20007	00000	******	20002
utase For Other Uses Referey Bild Termini Poplin Retary Retary Retary Total	å 11 <sub>2</sub> 1	"11"1	2 2 2 2 2	និ <sub>ា</sub> ្រ	81121	\$   1 <sup>2</sup>	8 11 g	57.E 818 84.8 84.8	N 1 1 8 1	511 <sub>8</sub> 1	81181	11121	5 11 %	2,027 2,865 3,885 15,565 16,563	80082	88 o z 2	3,229 17,539 7,6 7,6 7,7,5
utans-Propans Minters For Petro. Feed Use State Terminal Poptine Natural Gas Proceeding Plant	\$ 11°1	١١١١	00000	°11°1	°ıı°ı	°ıı°ı	°ıı°ı	00000	°ıı°ı	°II°I	١١٥١	°ı°ı	°ıı°ı	00000	00000	00000	00000
Utene-Propane Matures For Other Uses Perform Bulk Terrinal Poplers Ges Processing Plant	°11°1	° I ı° I	00000	0 1 0 1	" ı ı ° ı	١١١	°ıı°ı	" 98° °	-11	ำเท้า	i	11 1	* 1   1	85222	00040	55 0 a 85	57.2 2 8 E
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stocks of Crude Oil and Petroleum Products By PAD District, July 1983 huseand Barrelst (continued)

	DVG	PAD Dated 1	H		9AD	PAD Dearest 8					PAO Dismet III	=		j	2	1		
Consectty	Count	Appa tachi-	Total	Apple inch- inch-	22	Mer. Oaks	Kins.	Total	Tecas	Constant Con	Coast Ar	4.	New 7	Young		West	Dates	
Ethans-Propine Michres Refery Refery Refery Refery Refery Refery Refer Ref	111	°11°1	00000	°11°1	°11°1	°11°1	01181	3,514 630 163 4,403	° 1 8 1	°ı°ı	°ıı°ı	°ı°ı	° 11 1	0 52 52 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	00808	00000	0 1,198 1,198 12,924	
sociation Referey Refer Territoria Reference Popline Natura Gas Processing Plant Total	"   1 " I	° 11° 1	W00W4	1 1 ° 1	8,,~,	8 <sub>  1</sub> 1	9,12,	28 2 2 5	8   1 8	§ , , 8 ,	g   1 g	9 11 1	∾ , , <sup>9</sup> ,	128 255 257 277 280 277 280 277 280 277 280 280 280 280 280 280 280 280 280 280	20048	E 2 0 4 8	85 g 4 5	
Other Hydrocarbons and Alcohol African Bulk Terminal Prefer Prefer Hydrox Gos Processory Perk Total	81101	°ıı°ı	80008	١١٠١	g 11°1	° 11° 1	°ıı°ı	20002	"  °	211,1	11 1	° 1 1 1	° 1 ° 1	50005	-000-	0000v	80008	
Unfinitely Olds Reference and Lighter Gas Olds Resource and Lighte	257 257 158 158 158	25 8 8 8 8 E	2,852 1,733 5,830 12,456	30½~š	2,525 3,027 3,523 3,386 12,463	80 82 4	1,138 465 1,382 1,382 1,282	3,832 3,521 5,412 4,586 17,351	8 4 8 8 8	7,510 6,653 10,240 5,833	5,255 1,311 6,813 15,227 15,828,81	52988	ង ខ ខិ <sub>0</sub> ដី	13,696 8,743 18,313 8,736 49,429	28888	2,152 3,983 10,740 25,252 81,135	25,704 18,796 41,186 21,414 107,102	
Motor Casoline Blending Components Potenty But Terman Popelie Nexasi das Procesing Funt Total	£ 1 1 ° 1	ž 11°1	82005	8   °	\$ 11°1	ŝ   1 °	1,587	88.7 82.0 83.7 83.7	81101	11.00	811	5 11°1	5 11° 1	17,900 359 57 0 18,319	25. 20. 25.	8,431 102 0 8,533	30,846 796 180 0	
Aviation Gasoline Banding Comporteds Refrecy But Terment Popules Natural Gas Processing Plant Total	°ıı°ı	°ıı°ı	00000	°   1°	ž 11 , 1	°11°1	ž   1 °	80008	8 11°1	± 11,01	Ē 11 , 1	°ıı°ı	°ıı°ı	H H	00000	80008	£000E	
Total Perioded Motor Gasofine Refresy Bulk Termod Pycline	1   50037	₹ <sup>1 1</sup>	5,191	8   1	6,789	gg   1	11 2948	10,103 30,467 16,406	1 1 188	9.11	811	8 11	£ 1.1	17,500	1,384	8,321 10,794 2,548	50,044 52,052	1
See footnoics at end of table.																		

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 (Thousand Barrels) (continued)

	ď.	PAD District	=		PA	PAD District II	_				PAD District III	net III		_	DAD	8	
Commodity	Court	Appa- lach- an #1	Total	Appa- lach- an #2	, y,	Mann. West.	Cars. Mo	Total	Teazs	Gust Coast	Coest No. La.,		New Mosco	Total	Rocky IV	West C	States
otal Phisbed Motor Garoline Natural Gas Processing Plant	, I	١	58.643	°ı	۱	°ı	۱	57,042	°ı	°ı	°ı	°ı	°ı	46,770	5 583,	0 099'12	180,481
Petithed Leaded Motor Geogles Petither But Territral Podeline Podeline Podeline Total Total	22112	F   1	2,310 16,958 6,073 14,385	2   1 0	21101	ا " ا ا گ	1,786 1 1 0 1	5,487 16,100 9,207 0 30,304	8 11°1	2.11 ° 1	2280	%   1°	ă 11 ° 1	8,089 6,489 8,115 0 0 22,673	20 E 8 8 2	3,594 5,284 1,240 0 10,118	20,539 48,732 21,525 87,919
Firitabed Uniterated Motor Grandine Referey Ball Verminal Figure Metanal Gas Processing Plant Total	2,11 2,105	ا ۱۱ ۴	2,881 18,695 5,702 10 28,288	R II o	8 I I ° I	â 1 1 ° 1	2 11°1	4,872 14,367 7,129 0 0 25,239	\$ 11°1	85 II ° I	8 11 1	¥ ' ' ° '	2     0	2,431 9,130 0,130 2,4097	\$ \$ \$ \$ " E	4,727 5,510 1,308 1,545	22,436 45,801 21,834 12
Parings  Before  U.K. Teminos  Pipulan  Pipulan	\$     °	°11°1	48000	°ıı°ı	ž 11 ° 1	١١٠١	£     °	£85.5	* 11 × 1	8 1101	ă <sup>    ,  </sup>	0111	°ıı°ı	50.00000000000000000000000000000000000	28008	75g 0 0 25	និនិនននិ
Applitus Type Jet Fool Refront But Tembol Total	ន៍ 🖂	8	\$85E	°111	₽ 111	2111	8111	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$ 111	ž 1 1 1	ž	<u>8</u> 111	E 111	2,704 2,704	85 6 88	28 4 4 5°C.	1,885
Refinery Bulk Termon Bulk Termon Total	2111	.111	1,150 3,560 9,236	8	2111	8	£ 111	1,414 1,808 1,808 1,801	g 111	2,389	2 I I I	- 111	* 111	3,163 2,267 10,375	3388	2,727 1,552 1,552 7,563	11,850 13,097 8,917 38,858
Parking Plant	ğ 11°1	g 11°1	2,914 388 388 388 500	°ıı°ı	å 11°;	81101	۱۱۰۱	884 100 1745	£ 11_1	g   1°	à 11°1	°ı.°ı	8	27.2 27.2 2.705	48008	25.000	2005 4.79 8.77 8.58
SetState Foel Otte Balt Tomeral	11.00	8 11	6,462 38,167 6,276	8 11	\$11	11.88	2,275	9.252 16.384 7.980	1,146	10,282	\$11	ã,	8	0,385 9,040	1,028 1770 862	4,385 5,176 839	38,500 24,695
		Ì															

Table 20. Stocks of Crude Oil and Petroleum Products By PAD District, July 1983 Chausand Barreles (continued)

		à	PAD Detrot I			N.	PAD Desset II		H			PAD Demoi II	= 5		h	DYO.	Q I	
The second column	Commodity	Costet	Agos tache	Total		II, Ky		Kans, Mo.		-		N Guera					Ness v	States
Second   S	exang Plent		- 1	50,805		۰	°ı		0 659'02		۰,				22.450		11,002	131,007
		82111	111	20,202	â 111	8111	8 111	\$ 111	2,322 1,412 0,745	€ 111	8 III	25,787	<u> </u>	8 111	1,707 8,048 12,726	\$00\$	8,521 2,028 8,358	21,281 30,467 10 51,868
	Naphtha < 400 Deg. Petro. Feedstock Reisery Total	4.6			00	265	٥٥	55 55	88	88	8 8	2 2	88	0.0	22	00	2.2	2,235
Second   S	Other Otle > 400 Deg. Petro, Feedstock Refery	10 10			00	88	0.0		8.8	នីនី	327	2 2	00	0.0	1,713	N N	\$ 5	222
1	Special Naphthae Referry Bell Territorial Natural Gas Proceeding Plant Total	1 1	1 1	85.3	°ı°ı	8101	°ı°ı	, ' i	8808	5   E	ğ   °	8,0	ā'.'		26. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	8008	82.8	2515 2017 265
	N. P. C.	ž 11			۱۱		°ıı		957 1,289 2,286	\$ 11	3,115	1 8	8	٠.،	4,500 255 4,815	8 " 8	207 71E,1	8,100 2,522 11,522
20	Formeral Townstall To Gas Processing Plant	۱ ۱ ۱ ۲			11 1		°ıı°ı	11 1	80008	8   1°	ğ 11°1	ā 11 ° I	8     0	°   1°	80008		Ecco5	887 0 0 8 7
1				-	0.0				222	10 10	\$8	44	33	00	678			4,817
24 21 27 21 27 21 27 21 27 21 27 21 27 27 27 27 27 27 27 27 27 27 27 27 27		\$ 11			8 1 1	8 I I			6,749 3,450 10,199	8 ; ;	ğ <sub>   </sub>	8 11	₽11	811	2,000			15,313
	B Plant		1111	58.03		211_1	۱۰۱۱		88.2°-15	8 1 1 8 1		, , ,	¥11~1	°ıı°ı	唇齿蓝丝器			58 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

754,515 30,467 172,710 1,434,209

296,323

Fotal Stocks, All Oils 1 Includes 23,879 thousand Sourcer See Epitenstry No - Not Applicable.

Table 21. Movements of Crude Oil and Petroles

	"	From I to	a	r		From	From If to			From III to	9		£	From IV to		From V to	٥	From V to	9
Commodity	=	=	-	,	-	в	2	>	-	-	2	>		=	>	-	=	=	2
Courte Oil Chanter and Rarne politi	۰			0	°	0	۰	۰	416	1,931	۰	٥	0	0	۰	4,490	۰	17,694	
	-	,	,	•	9000			;	24 905	92 990	•	0 1 34	100	378	1.040	c	0	•	0
Petroleum Products		4	t <	0 0	800	275	4	3	9	9	0	,		0	0	0		0	0
Material Capacity and Copacity	0 0			•	0	603	0	0	•	986	0	0	200	8	0	0	۰	0	0
The Confession				0	0	٥	0	٥	۰	0	0	0	0	0	0	٥	۰	0	0
Clausing Bosonium Canada				0	480	1.971	45	٥	1,188	3,968	0	0	241	0	0	0	۰	0	0
The state of the s				0	9	0	0	0	۰	0	0	0	0	0	0	0	۰	0	0
Motor Country Blandon Components				•	•	•	0	۰	۰	1,239	0	0	o	0	0	0	٥	0	0
Aviston Groupes Blandon Components	. 0			0	۰	۰	0	0		•	۰	٥	٥	0	0	0	۰	0	0
Statement Matter Carolina	4 005			G	1804	1.877	1350	2		11,426	0	1,128	909	0	867	0	۰	0	0
English Could Motor Gambra	3.400			a	P.	808	Ê	0	20.546	5,853	۰	150	370	0	989	0	0	0	0
Existed Helended Motor Cambrie	2076			a	1.125	8	88	3	30,812	5,473	•	517	236	0	262	0	۰	0	0
Doubled Adeline Gambra	2		0	0	٥	٥	8	0	308	345	0	0	0	0	0	0	٥		٥
Marchine Torse Let Bresi	10			0	0			۰	718	136	۰	566	F	0	0	0	۰		0
Venneral Total Self	466		0	a	194	63	9	٥	8.677	1,825	۰	183	0	0	141	0	0		0
	9			c	-			۰	100	38	•	0	0	0	0	٥	٥	0	0
	1 745			c	280	838	203	202	-	5,546	0	358	376	0	264	0	۰	0	۰
Beatral Fiel Of	0		8	0	4		۰	٥	2,149	SS	0	0	0	0	0	0	۰	00	۰
																			•
Candidate	17		٥	۰	٥	0	0	0	8	80	0	0	0	0	0	D	0	0	9
Special Numbers	a		0	۰	15	0	0	۰	226	146	٥	0	0	0	0	٥	•	0	0
- Checoste			ş	0	88	0	0	٥	699	35%	0	101	0	۰	۰	0	0	D	9
The same of the sa			۰		0	0	a	a	7	0	٥	۰	0	0	0	0	۰	٥	0
Annual and Personal	•			9			d	0	178	737	0	۰	0	0	0	0	۰	0	۰
Macelannous Products	8,		2	0	153	118	0	٥	162	92	٥	0	0	0	0	0	۰	0	0
Total All Products	8,113		204	0	3,398	5,586	2,171	340	115,06	120,151	0	2,134	1,950	358	1,282	4,430	۰	17,702	0

Table 22. Movements of Petroleum Products by Pipeline between PAD Districts, July 1983 (Thousand Berrets)

	From 1 to	2		From II to			From 12 to	9		Œ	From IV to	_	From V to	2
Controoty	-	a	-	=	2	-	-	2	>	-	2	>	-	2
Veteral Gazoine and Indocritaria	۰	٥	0	28	۰	۰	689	0	0	us.	۰	0	0	
Artisologist Street	0	٥	٥	603	٥	0	385	0	0	923	34	0	0	
ant Condemnate	0	۰	0	0	0	۰	۰	0	0	c	۰	0	0	
Rausfied Payoleum Gazes	0	٥	462	1,971	\$	1,007	3,859	٥	0	ž	0	0	0	
Antar Geogram Blanding Components	0	0	0	0	0	0	83	0	0	0	٥	0	0	
Assisted Gleadure Results Components	0	0	C	a	٥	٥	٥	0	a	٥	٥	۰	0	
	4392	0	1,588	1.677	1,386	39,680	10,433	0	20	88	0	100	0	
Frighed Leaded Motor Gradine	2,460	۰	654	950	2	15,947	200	0	ç	2	٥	202	0	
Freshed Université Motor Gasotine	1,942	0	ä	730	889	23,673	4.912	0	414	838	0	292	0	
Philabed Awaton Gasoline	12	۰	۰		ä	49	200	٥	0	٥	0	0	0	
antitha-Tron Jet Puel	0	0	a		٥	321	138	0	255	E	٥	٥	0	
droteme Type Jed Fluel	5.2	0	183	8	830	5431	1,663	0	3	0	0	141	0	
Project Control of the Control of th	0	٥	0		٥	9	ä	0	0	٥	۰	0	0	
soline Fari Of	1.241	٥	250	253	203	10.005	4,375	۰	200	376	٥	8	0	
endual Foot Oil	۰	0	0	٥	٥	۰	۰	0	0	٥	۰	۰	0	
Algorithmens Products	0	٥	144		٥	0	0	c	۰	۰	٥	٥	0	
Total named and party and	5,719	٥	ä	5,184	2.17	57,543	23,362	0	1,680	1,958	35	1,382	0	

Table 23. Movements of Crude Oil and Petroleum Products by Tanker and Barge Between PAD Districts, July 1983 (Thousand Barrels)

	•	From I to			Front	From It to				From	From 11 to				From V to	
Commodity	-	-	>	_	Ë	-	,	-	18	景泉	A E	-	>	-	e	s
Crude Oil	۰	۰				۰	۰	419	۰	6	°	1561	۰	8	۰	17,594
Petroleum Products	2394	8	Ĭ	_	192	405	388	22.352	1,568	4.285	15.519	3.858	435	0	0	œ
Liquated Petroleum Gases	٥	۰			0	0	٥	E	٥	0	171	٥	0			
Unfrashed Ole	0	0		_		0	0	۰	۰	٥	٥	٥	۰	۰	۰	٥
Motor Gasoine Blanding Components	٥	۰	•		0	0	0		0	٥	0	0	0	٥	•	0
Firished Motor Gasoline	1,603	0		"	ž	0	8	11,730	464	1,586	9,688	993	244	۰	۰	٥
Brished Awation Geodera	٥	0			۰	0	۰	15	85	28	12	45	0	0	0	0
Naphtha-Type Jet Fuel	147	0			0	0	۰	382	۰	0	395	٥	۰	۰	۰	۰
Kerosene-Type Jet Fuel	5	۰	•	۰	7	0	0	3,246	314	22	2,109	272	0	6	0	c
Karosene	0	0					0	ä	۰	18	16	0	0	0	0	0
Distinte Fuel Oil	ŝ	0	•		8	0	286	3,171	55	300	2310	1,171	٥	0	۰	0
Residual Fort Oil	0	8	Ĭ		G	287	0	2,145	8	850	1,061	23	0	۰	۰	80
Naptrha and Other Ols for Petro. Feed, Use	17	•				0	0	a	0	0	53	40	0	۰	۰	٥
Special Naphthas	0	0	Ĭ		2	0	0	š	•	Ē	107	145	0	۰	۰	0
Utreatts	-	8	•		8	0	0	889	۰	8	255	334	181	0	۰	0
Water and the second se	٥	0	Ĭ			0	0	7	0	-	٥	٥	۰	٥	٥	٥
Argebalt and Road Od	o	۰	•		8	۰	۰	178	0	æ	160	737	0	•	•	0
Misoelbrydous Products	38	ž	•		o	115	0	162	0	ä	8	20	٥	0	0	0
Total	2,394	300			191	405	8	22,768	256	4,681	16,519	5,732	83	4,490	۰	17,702
South See Perlandon Nates on Data Collection and Patention	puntion		l	1	ı	1	Ì	1	١	l	1	Ì	1	ļ	١	١

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			ž.	i si	9	100	Dugu	Source Co.	N S		Messoo	Total	Rocky	Nest Const	States
	**			916	936	2	4		1						
	87	0	8	0	E	£	ş	8	88	ş	\$ 5	1000	989	8,746	23,932
Greater Then 1,00% Suffer 133				210	82	8	187		\$ 5	ı.		3,232	10	2,564	828
Possess Co. C.									200	š		6,300	ĝ	20	13,000
Coles	Appela Total	al chian	1,5	Men. Wec.	Kare i	Total	Texas Inland	Teose Out	PAD Dustrict III Gulf No La	No. La.	Nessoo	To an	PAD PAD N	PAD View V	States
Residual Fuel Oil - 0.00 to 0.30% Suttur Refinery Suk Terminal 530	9	25	0 137		6		ន	ã		1	2	â	2	3	
100	1	1	1		1	200	1 1	П	11	П	П	85	0	٥١	107

° 1 J 8 1 1 8 I I 8 5 1 1 8 II 8 12.00 8 11 8 1188 \* 11 1317 8 Sources: See Explanatory Notice on Data Collecton and Estimat
- Not Applicable Residual Fuel Ot — Greater than 1.00% Safur Rothesy Bulk Terminal

1,414 644 £ 0 £

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Table 27, Movements of Residual Fuel Oil by Tanker and Barge Between PAD Districts, By Sulfur Content, July 1983 (Thousand Barres)

				i	Baller				From III to	t to		_		Days V to		
Composit					ľ	I	ľ	ĺ	I							
	=	8	>	-	9	>	n	ž g	A S	Š	-	>	-	-	=	
Residual Fuel OII 0.00 to 0.00% Suffur 0.31 to 1.00% Suffur Greater Than 1,00% Suffur	0000	8008	0000	4048	8°°#	0000	2,148 615 815	g°g°	8°°48	100,000	Noc.		***	***	***	
Source: See Explanatory Notes on Data Colle	Part out	Sedmark							1		3		0	0		

2,073 7,806 11,512 14,300 25,815

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7,588

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2,442

Residual Five Oil - 0.31 to 1.02% Sulfur Retireny Balk Terretail

Table 28. Imports of Residual Fuel Oil by Sulfur Content by Country of Origin, July 1983
(Thousand Barrals)

		Paskiu	al Fuel Oil	
Country	0.00 to 0.30%	0.91 to 1.00%	Greater Than 1 03%	Total
Areh OPEC				
Algeria	951	0	0	251
ireq		ō	ŏ	
Kuwait	498	0	ċ	498
Utys	0		0	0
Qeter	0		0	0
Saudi Arabia		:	0	0
Sublotal Arab OPEC	849	ő	0	848
Other OPEC				
Ecuador	0	0	129	120
Gabon	0	0	0	9
ledonaria	103	76	5	584
iren	9		0	9
Nigeria	1 176		0	0
Venezusia Subrotel Other OPEC	1,176	29 87	2,519 2,852	9,717 4,430
	1,860	87	2,862	4,490
Other Angola	0	305	0	355
Australia	ŏ	0.0	ň	
Beharres	477	36	572	885
Bolivis	0	0	0	0
Brazi	308	0	0	335
Brunel	0	0	0	
Cenada	162	780	122	1,084
Congo	0	0	0	. 0
Egypt	ů,		, i	9
GD 608	ě	ě	ň	ň
Uberla	ň	ň	ň	ň
Melavaia	ě	11	32	43
Mexico			200	216
Netherlands	ė.	ė.	0	
Natherlands Antilles	ė	328	3,218	3,884
Norwey		0		. 0
Oman		0		
Peopla's Republic of China	991	766	0	0 678
Parti	221	786		E76
Romania	š	ŏ	š	ě
Spein	ŏ	ů	ě	ŏ
Syria	ě.	ŏ	š	ě
Trinided	23	ō	519	642
Turisis	-	ō		
United Kingdom	ō	286	ò	288
Virgin Islands	1,144	1,663	1,035	3,863
Yugoelavia		0	9	
Zefre	۰	0	0	0
Arab OPEC Other Wastern Hernischere	387	746	687	1869
Other Wastern Hernisphera	367 644	1,353	220	2,117
Subtotal Other	3,284	8,302	8,290	16,876
Total Imports	5.813	5.309	8,942	21,164

(9) Less than 800 barrals. Note: Total may not equal sum of components due to independent rounding. Sources: See Explanatory Notes on Data Collection and Settinston.

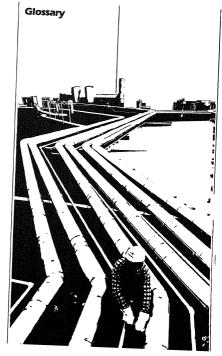
Teble 29. Importe of Residuel Fuel Oil by Sulfur Content by State of Entry, July 1983 (Thousand Barrels)

		Residu	al Fuel OI	
Staja	0 00 to 0 30%	0.31 to 1.00%	Greater Than 1 00%	Total
PAD District i	3,927	5,809	8,458	18,193
Connectout	544		0	544
Delaware	۰	0	159	139
Florida	۰	913	1,545	2,538
George	0	0	298	288
Maine	0	0	484	484
Maryland			203	203
Massachusetts	0	843	1,511	2,154
New Hampshire			447	447
New Jersey	282	1,075	1,644	3,002
New York	3,075	2,214	1,171	8,451
Pennsylvania	23	983	225	1,131
Rhode Island		0	103	103
South Carolina		0	107	107
Vermont	2	0	0	2
Virgnia	0	0	579	579
AD District II	180	349	36	545
Mirois	0	150	0	150
Michigan	160	175		336
Minnesota	0	0	7	7
North Dekote	0	0	28	29
One		14	0	14
PAD District III	1,724	0	330	2,067
Louisians	220	0		304
Texas	1,428	0	327	1,783
PAD District IV		0	5	5
Montana	0	0	5	5
AD District V	1	242	111	354
Celifornia	(9)		,5	9
Hawai	1	242	105	348
NI PAD Dietricts	5,813	8,339	8,942	21,154

<sup>(</sup>t) Lass than 500 berrals

Noter Total may not occur sum of components due to independent rounding

Sources See Explanatory Notes on Data Collection and Estimation





# Definitions of Petroleum Products and Other Terms

Alenhol. The famility name of a group of organic chemical compounds composed of carbon, hydrogan, and oxygen. The series of molecules vary in chain length and are composed of a hydrocarbon plus a hydrological chemical c

Alkylation. A refinery process for chemically combining isoparafiln with olefin hydrocarbons. The product, askylate, has high octaine value and is blended with motor and aviation gesoline to Improve the antiknock value of the fuel.

API Gravity. An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

Aromatics, Hydrocarbons characterized by unsaturated ring atructures of cerbon atoms. Commercial petroleum aromatics are benzane, toluene, and xylene.

Apphar. A dark-brown-to-black comend-like material, containing blumens as the predominant constituents, obtained by petroleum processing. The definition includes crude asphal as well so the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make outset asphalts had comended to the content of the conversion feelow of several to the conversion feelow of several to the conversion feelow of several to 5.5 terrel of 42 degrees of 5.5 terrel of 5.5 t

ASTM. The acronym for the American Society for Test-

Aviation Gasoline Blending Components. Finished components in the gasoline renge which will be used for blending or compounding into finished aviation.

gasoline.

Aviation Gesoline, Finished. All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D910 and Millery Specification MIL-G-5672. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

Barrel. A volumetric unit of measure for crude oil and petroleum products aquivalent to 42 U.S. gallons. This measure is used in most statistical reports. Factors for convorting petroleum coke, asphalt and wax to berrels are given in the definitions for these products.

Barrels per Celender Dey. The maximum number of barrels of Input that can be processed in a twenty-four hour period after making allowances for the following limitations: downstream limitations, environmental constreints, types and grades of inputs, planned and unplanned downtime, and types and grades of produota. Barrels Per Streem Day. The amount a unit can process running at full capacity under optimal crude and product state conditions.

Bi-metallic. A term used to describe a type of catalyst. A catalystic process utilizing a catalyst comprised of two metals (e.g., platinum, rhonium).

Butsne. A normally gaseous paraffinic hydrocarbon, C4H10. It is extracted from natural gas or refinery gas streams. Butane is covered by ASTM Specification D1835 and Gas Processors Association Specification for commercial butane.

Isobutene. A saturated straight-chein hydrocarbon of butane. It is a coloriess paraffinic gas that bolls at a temperature of 1.0.9 degrees F. This despitication includes mixtures of gases that contain 80 percent liquid volume or more isobutane. It is extracted from natural gas and refinery oss streams.

Normal Butane. A saturated straight-chain hydroonbon of butane, it is a coloriese paraffinic gae that boils at a temperature of 31.1 degrees F. This classification includes mixtures of gaees that contain 80 percent or more normal butane.

Other Butanes. All butanes not included as normal butane or isobutane.

Butens-Propens Mixtures. Mixtures consisting exclusively of butens and propens that conform to ASTM Specillication D1835 and Gas Processors Association Specification for commercial butans-propen emixtures. They are extracted from natural gas and refinery gas streams.

Butylene. An olefinic hydrocarbon, C4H8, recovered from refinery processes.

Catalytic Crecking. The refining process of breeking down the larger, heavier, and more complex hydrocarbon molecules into simpler and lighter molecules. Catalytic cracking is accomplished by the use of a catalytic cracking is accomplished by the use of a catalytic reads and is an effective process for increasing the vielat of accompline from enud oil.

Cetalytic Hydrocracking. A refining process for converting middle boiling or residual material to high-cottens gesoline, reformer charge stock, jot fuel endfor high grade tuel oil. Hydrocracking is an efficient, relatively low temperature process using hydrogen and a catalyst.

Celelytic Hydrotreating. A process for treating petroleum fractions (e.g., distillate fuel oil and residual fuel oil) and untiniehed oils (e.g., napithes, reformer feeds and heavy gas oil) in the presence of catalysts and susstantial quantities of hydrogen to upgrade their quality.

Catalytic Reforming. The use of controlled heat and pressure with catalysts to effect the rearrangement of certain hydrocarbon molecules without altering their composition appreciable; the conversion of low-cotans

gasoline fractions into higher octane stocks suitable for blending into finished gasoline; also the conversion of naphthas to obtain a more volatile product of higher cottane number.

Conventional. A term used to describe a type of catalyst. A catalytic process utilizing a catalyst comprised of a metal and a non-metal (e.g., platinum, alumina).

Cost. A generic term applied to carbonaceous rocks that were formed by the partial or complete decomposition of vegetation. These stratified carbonaceous rocks are either solid or brittle and are highly combustible. Includes litphite, bituminous cost, and anthracite coel

which conform to ASTM Specification D088.

Crude Distillation. The refining process of separating crude oil components by heating and subsequent condeneing of the fractions by cooling.

Crude Oil (including Lease Condensete). A mixture of hydrocarbons that existed in liquid) phase in underground reservoirs and remains liquid at atmospheric preservoir and preservoirs expanding facility preservoirs. The production of the production of certons produced from tar sands, gillannite and oil shale. Drip gas is esto including, oil tropped crude oil (residual oil) and other unfinished oils are excluded, liquidis produced at natural gas processing plants and liquidis produced at natural gas processing plants and liquidis produced at a simple excluded where idennification. Controls oil are simpled excluded where idennification. Controls oil are simpled excluded where idenrification. Controls oil are simpled excluded where idenrification.

Domestic. Crude oil produced in the United States or from its outer continental shelf as defined in 43 U.S.C. 1331.

Foreign. Crude oil produced outside the United States

Delayed Coking. A process to produce low Conradson carbon gas for catalytic cracking feedstock and for gasoline.

Distillate Fuel Oil. A general classification for one of the petroleum freations produced in conventional distillation operations, it is used primarily for space heat-flig, on-and-of-highway dissels engine fuel machingry, and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2, and No. 4 fuel oils; No. 1, No. 2.

No. 1 Feel Oit. A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D969 specifies for this grade maximum distillation temperatures of 420 degrees F. at the 10-percent point, and 550 degrees F. at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees F.

No. 2 Fuel Oil, A distillate fuel oil for use in atomizingtype burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D398 specifies for this grade distillation temperatures at the 90-percent point between 540 degrees and 640 degrees F., and kinematic viscosities between 2.0 and 3.8 centricokes at 100 degrees F.

No. 1 and No. 2 Diesel Fuel Olls. Distillate fuel oils used in compression-ignition engines, as given by ASTM Specification D975:

No. 1-D. A volatile distillate fuel oil with a boiling range between 300-575 degrees F. and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-8 diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specifications D976.

No. 2-D. A gas oil type distillate of lower volatility with distillation temperatures at the S0-pertent with distillation temperatures at the S0-pertent point between 50-840 degrees F. for use in high-seed diseal engines generally operated under uniform speed and load conditions. Includes Type R-R disest foul used for railroad locomotive or glans, and Type T-T for diseal-engine trucks, Properties are defined in ASTM Specification p979.

No. 4 Fuel OII. A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This grade is a blend of distillate fuel oil and residual true oil attooks that contorms to ASTM Specification D396 or Federal Specification of the Commercial Commercial Specification of Spec

Eastern Hemisphere. That helf of the earth east of the Atlantic Ocean which includes Europe, Asia, Africa, and Australia. The Hawaiian Foreign Trade Zone is in this hemisphere.

Electric Energy (Purchased). Electricity purchased for refinery operations that is not produced within the refinery complex.

Ethene. A normally gaseous pareffinic compound (C2H6) extracted from natural ges and refinery gas afreems. "Ethene" includes any products containing 90 percent liquid volume or more ethene.

Ethane-Propene Mixtures. Mixtures of ethane and propane in which neither component is 90 percent or more of the liquid volume, it is extracted from natural gae and refinery gas atreams.

Ethylene. An olefinic hydrocarbon, (C2H4) recovered from refinery or petrochemical processes.

Field Production. Represents crude oil production on leases, natural gas liquids production at natural gas processing plants, and new supply of other hydrocarbons and elechol.

Fluid Coking. A thermal process utilizing the fluidizedsolids technique for continuous conversion of heavy, low-crade oils into lighter products.

Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished sylation or motor casoline.

Gas Off. A liquid potroleum distillate having a viscosity Intermediate between that of kerosene and lubricating oil. Derives it name from having originally been used in the manufacture of illuminetting gas. Now supplies to the state of the state of

Imported Crude Oil Burned as Fuel. The amount of foreign crude oil burned as a fuel oil, usually as residenfuel oil, without being processed as such. Imported crude oil burned as fuel includes leade condensate and liquid hydrocarbons produced from tar send oil, gilsonlia, and oil shale.

Isomerization. A refining process which alters the fundamental arrangement of atoms in the molecule. Used to convert normal butene into isobutane, an alkylation process feedstock, and normal pentene and have ane into isopentane and isohexane, high-octane gasoline components.

Kerosene Type Jef Fuel. A quality keroene product with an average gravity of 4.07 degrees AP, a 10 per cont distillation temperature of 400 degrees F. It is covered by ASTM Specification to 1858 and MIPHS Specification to 1858 and MIPHS Specification to 1858 and SP-8), a freel to 410 to 1859 and SP-8), a freel tively low-freezing point distillate of the kerosene type; tit is used primarily for commercial turbojet and turboprop aircraft engines.

Lease Condensate. A netural gas liquid recovered from gas well gas (associated and non-essociated) in lease separators or natural gas field facilities, Lease condensate consists primarily of pentanes and heavier hydrocarbons.

Liquelled Petroleum Gases (LPG). Propane, propylene, butanes, butylene, butane-propane mixtures, ethane-propane mixtures, ethane-propane mixtures, end isobutane produced at refineries or natural gas proceeding plants, including plants that fractionate raw natural gas plant liquid.

Liquetine Antinery Gases (RRG), Liquetinel patroleum gases fractionated form effency or still gases. Through compression articler retrigenation they are retained in antider ethicity of the still gases and still gases and still gases and still gases used for othersion of the still gases used for othersional or hother and/or bulylene, bustane-propane mixtures, and isobustane. Evoluses ethil gases used for othersiol or robber and/or bulylene, bustane-propane mixtures, and isobustane. Evoluses ethil gases used for othersiol or robber bullet gases are reported for the still gases are re-ported for use as a periorchemical feedstocks or other properties for use as a periorchemical feedstocks or other still gases are re-ported for the still gases are re-ported for use as a periorchemical feedstocks or other still gases are re-ported for use as a periorchemical feedstocks or other still gases.

Lubricating Oils. A substance used to reduce friction between bearing surfaces. Patroleum lubricants may be produced either from distillates or residues, Other substances may be added to impart or improve certain required properties. Lubricants includes all grades of lubricating oils from spinition oil to cylinder oil and those used in greases. The three categories include Bright Stock, Neutral, and Other.

Bright Stock. A refined, high viscosity lubricating oil base stock that is usually made from residuum by a freatment such as deasphalting, acid treatment, or solvent extraction.

Neutral. A distillate fubricating oil base atock with a viscosity that is usually not above 550 Saybolt Universal Seconds (SUS) at 100 degrees F. It is prepared by a treatment such as hydrofining, sold treatment, or solvent extraction.

Other. A lubricating oil base stock used in finished lubricating oils and greases, including black, coestal, and red oils.

Middle Distilletes. A general classification that includes distillate fuel oil and kerosene.

Miscelleneous Products. Includes all finiehed products not classified elsewhere, e.g., petroletum, absorption olls, ram-jet fuel, petroleum rocket fuels, synthetic netural gas feedstocks, speciality olls and medicinal oils.

Motor Gasoline Blending Components. Finished components in the gasoline range which will be used for blending or compounding into finished motor gasoline. Pool assoline is included in this gategory.

Motor Gescline, Finished A. complex mixture of roles vivolated in Jordan Vivolated In Jordan Control C

Finished Leaded Gasoline. Contains more than 0.00 grand or jown of lead per pallon or more than 0.000 grand or jown of lead per pallon or more than 0.000 grand or phosphorus per pallon. The actual lead content of any given gallon, however, may yet as function of the size of the producer and company according to specific Environmental Protection. Agency valves provisions. Premium and regular grades are included, depending on the octains rating, includes leaded depending on the octains rating, includes leaded before the contraction of the contraction of provisions. The production of the contraction of productions of the contraction of the contraction of the contraction of productions of the contraction of productions of produ

Finished Unleaded Gasoline. Contains not more than O.G. gram of lead per gallon and not more than O.G. gram of phosphorus per gallon. Premium and regular grades are included, depending on the octane rating, includes unleaded gasdhol. Bland stock is excluded until blending has been completed. Alcohol that is to be used in the blending of asshol is sales oxolided.

Geschol. A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol.

Motor Gesoline, Total. Includes finished leaded motor gesoline, finished unleaded motor gesoline, motor gesoline blending components, and gesoloj.

Nephtha-Type Jet Fuel. A fuel in the heavy naphtha boiling renge with an average gravity of 52.8 degrees API and 20 to 50 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification Milit-7-5624. (Grade JP-4.) P-4 is used for turbojet and turboprop atrosfit engines, primarily by the military. Excludes aramiet and betroloum rocket price.

Netural Ges. A mixture of hydrocarbons and small quentities of various nonhydrocerbons existing in the gaseous phace or in solution with crude oil in underground reservoirs.

Natural Gas Field Facility. A field facility designed to process natural gas produced from more than one lease for the purpose of recovering condensate from a stream of natural gas; however, some field facilities are designed to recover propane, butten, extural gas/line, ato, and to control the quality of natural gas to be marketed.

Naturel das Pient Liquidas. Natural gas liquida processed from natural gas in gas processing prinsts, and convent form natural gas in gas processing prinsts, and convention for the processing prints of the prints

motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gaselline and Isopentane. A mixture of hydrocarbons, mostly pentanes and heavier, astracted from natural gas, that meets vapor pressure, and point, and other specifications for natural gasoline set by the Gas Processora Association. Includes Isopentane which is a saturated branch-chain hydrocarbon, CSH12, oblained by frectionation of natural gasoline or Isomerization of normal pentane.

OPEC. The acroym for the Organization of Petroleum Exporting Countries, oll-producing and exporting countries that have organized for the purpose of negotiating with oil companies on maters of oil producing and future concession (sphis, Current members proses, and future concession (sphis, Current members) propris, Scuador, Gabon, Idonesis, Iran, Iran, Kuwali, Libya, Nigeria, Catar, Saudi Arabia, United Arab Emirals, and Versezuriei.

Operable Distillation Capacity. The meximum amount of input hat can be proceeded by a crude oil distillation unit in a 24-hour period, making allowances for processing limitations due to types and grades of injous, illinitations of downstream facilities, scheduled downscheduled downtimes, and environmental constraints, includes any shutdown capacity that could be placed in correction within 50 days.

Other Hydrocarbons. Meterials received by a refinery and consumed as raw materials, includes hydrogen, coal far derivatives, glisonite, and natural gas received by the refinery for reforming into hydrogen. Natural gas to be used as fuel is explained.

Petrochemical Feedstock Use. Chemical feedstocks derived from petroleum, principally for the manufecture of enemicals, synthetic rubber, and a variety of plastics. The categories reported are Naphtha-less than 400 degrees F. end-point and Other oils-over 400 degrees F. end-point.

Naphtha-Less Then 400 Degrees F. End-Point A naphtha with an end point of less than 400 degrees F. that is reported as used as a petrochemical feed-stock

Other Olls-Over 400 Degrees F. End-Point. Olls with an end point over 400 degrees F. that is reported as used as a patrochemical teadstock.

Petroleum Coke. A residue, the final product of the condensation process in oracking. This product is reported as marketable coke or catalyet coke. The conversion fector is five barrels of 42 U.S. gallons pershort ton.

Merketable Coke. Those grades of coke produced in dalayed or fluid cokers which may be recovered as relatively pure carbon. This green coke may be sold or further purified by catolning. Catefyst Coke. In many catalytic operations (i.e., catefyitic cracking) carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refinery process. This carbon or coke is not recoverable in a concentrated form.

Patolaum Products, Patrolaum products are obstined from the processing of cruce oil (including lease on-cleanate), netural gas, and other hydrocarbon compounds. Periodeum products (neutrolau products), neutrolaum products (neutrolaum products), neutrolaum products (neutrolaum), neutrolaum products (neutrolaum), neutrolaum products (neutrolaum), neutrolaum products, neutrolaum products, neutrolaum products, neutrolaum), neutrolaum products, neutro

Petroleum Refinery. An installation that manufactures finished patroleum products from crude oil, unfinished oils, natural gas iliquids, other hydrocarbons, and alco-

Plant Condensate. One of the natural gas liquids, mostly pentenes and heavier hydrocarbons, recovered and separated as liquids at gas inlet separators or ecrubbers in processing plants.

Primary Stocks. Stocks of orude oil or petroleum products held in storage at (or in) leases, refleriers, natural ges processing plants, pipelines, tanklerms, end built ges processing plants, pipelines, tanklerms, end built better products or that our receive petroleum products by tanker, barge, or pipeline. Crude oil that its in transit from Alsake, or that is attracted in Dederal leases or in the Strategic Petroleum Reserve is included. Primary in the Strategic Petroleum Reserve is included. Primary in bonded warehouse storage.

Propers. A normally gaseous perdifinic compound, C3HB, which includes all products covered by NGPA Specification for commercial and HD-5 propens and ASTM Specification D1835. It is used primarily as a fuel and as a percohemical feedstock.

Propylens. An olefinic hydrocerbon, C3H8, recovered from refinery or petrochemical processes.

Read/dat-Fuel Oil. The topped crude of refinery operation which includes No. 6 and No. 6 fuel oils as defined in ASTN Specification D366 and Federal Specification (ASTN Specification D366 and Federal Specification Specification Milk-Fe89E including Amendment 2 (NATO Symbol F-77), and Bunker O fuel oil. Read/du fuel oil is used for the production of electric power, specification fuel of the production of electric power, specification fuel of the production of electric power, specification of the production of the production of the specification of the production of the production of the production of the specification of the production of the production of the production of the specification of the production of the production of the production of the specification of the production of the production

Road Oil. Any heavy petroleum oil, including residual esphaltic oil used as a dust pallative and surface treatment on roads and highways. It is generally produced in six grades from 0, the most liquid, to 5, the most viscous.

Special Ngothbas. All finished products within the gasoline range that are used as plant thinners, cleaners, or solvents. These products are reliated to a Specific field that point and have a builtin grange of 90 degrees to 220 degrees F. Special reportions includes all commercial means and cleaning solvents conforming to ASTM Specifications 01639 and 0464, respectively. Associated the control of the control

Steem (Purchased). Steam, purchased for use by a refinery, that was not generated from within the refinery complex.

Still Ges (Refinery Ges). Any form or mixture of gas produced in refineries by distillation crecking, reforming, and other processes. The principal constituents are methane, ethane, athylene, butane, butylene, propene, propylene, etc. Still gas is reported for petrochemical feedetock use and/or refinery fuel use.

Patrochemical Feederook Use, Includes all rafinery streams which are used by chemical or rubber menu-fecturing operations for further processing, less the encount of such streams returned to the source re-initery. Finished petrochemical products are not included. For example, polyethylene, butdallene, etc., are considered petrochamical products; therefore, only their feed-stock southerst are including.

Fuel Use. All other still gas.

Stretegic Petroleum Reserve (SPR). Stocks (currently, only crude oil) maintained by the Federal Government for use during periods of major supply interruption.

Thermal Cracking. A refining process in which heat and pressure are used to break down, rearrange, or combine hydrocarbon molecules. Thermal cracking is used to increase the yield of gasoline obtainable from crude oil.

Unliniahed Olia. Includes all oils requiring further proceasing, except those requiring only mechanical bland-

Unfrectionated Streams. Mixtures of unsegregated natural gas liquid components excluding those included in plant condensate. This product is extracted from natural gas.

Vecuum Distillation. Distillation under reduced pressure (less the atmospheric) which lowers the boiling temperature of the liquid being distilled. This technique, with its relatively low temperatures, prevente crecking or decomposition of the charge stock.

Viebreeking. A thermal cracking process in which heavy vacuum-still bottoms produced on the primary

distillation unit are cracked to increase production of distillate products.

Wax. A solid or semi-solid material cerived from petroleum dielitilles or rediculs by such treatments es chilling, precipitating with a solvent, or de-colling. It is lightolored, mose-or-less translucent opt-stalline mass, slightly greasy to the touch, consisting of a mixture of solid hydrocerosis in which the perallin series persocials or fully refined. The three grades included are microcrystalline, crystalline-fully relined, and crystalline-other. The conversion fector is 280 pounds per 42pation barrel.

Microcrystelline Wax. Wax extracted from certain petroleum residues having a finer and less epparent crystalline structure then peraffin wax and heving the following physical characteristics:

Penetration at 77 degrees F. (D-1321)-60 meximum. Viscosity at 210 degrees F. in Saybolt Universal Seconds (SUS) (D-88)-60 SUS (10.22 centistokee) minimum to 150 SUS (31.8 centistokes) maximum. Oil content (D-721)-5 percent minimum.

Crystalline-Fully Refined Wax. A light-colored paraffin wax having the following characteristics:

Viscoeity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) meximum. Oil Content (D-721)-0.5 percent maximum. Other + 20 color, Saybolt minimum.

Crystalline-Other Wax. A paraffin wax having the following characteristics:

Viscosity at 210 degrees F. (D-88)-59.9 SUS (10.18 centistokes) maximuth. Oil Content (D-721)-0.51 percent minimum to 15 percent meximum.

Western Hemisphere. That half of the earth that includes North and South America and the eurrounding waters.

# Bureau of Mines Petroleum Refining Districts and PAD Districts

The following are the Bureau of Mines petroleum refining districts which make up the PAD districts.

#### PAD District i

East Coast: District of Columbia and the States of Maino, New Hampshire, Vermont, Messachusetts, Phrode Island, Connecticut, New Joseph, Distance, Phrode Island, Connecticut, New Joseph, Distance, Goorgie, Fichica, and the following counties of the State of New York Cayuna, Tompkins, Chemung and accurations sets and north thereof. Also the following van, Columbia, Montour, Northumberland, Dauphin, York, and all counties east thereof.

Appelachien #1: The State of West Virginia and those parts of the States of Pennsylvania and New York not included in the East Coast District.

#### PAD District II

Appaiachian #2: The following counties of the State of Ohio: Erie, Huron, Crawford, Marion, Delswere, Franklin, Pickaway, Ross, Pike, Scioto, and sil counties east the cod.

Indiana—Illinois—Kentucky: The States of Indians, Illinois, Kentucky, Tennesses, Michigen, and that pert of the State of Chio not included in the Appellachian District.

Minnesote—Wisconsin—North and South Dakote: The States of Minnesota, Wisconsin, North Dakote, and South Dakote.

Okiahoma—Kansas—Missouri: The States of Oklahoma, Kansas, Missouri, Nebraska, and lows.

#### PAD District III

Texas inland: The State of Texas except the Texas Gulf Coast District.

Texas Guil Coest: The following countles of the State of Texas: Newton, Orange, Jefferson, Jasper, Tyler, Hardin, Liberty, Chambers, Polk, San Jacinto, Montgomery, Harris, Galveston, Waller, Fort Bend, Parzorla, Wharton, Metagords, Jackson, Victoria, Calhoun, Retugio, Aransas, San Patricio, Nuaces, Kleberg, Kenedy, Willscy, and Gameron.

Louisians Guil Coast: The following Parishes of the state of Louisians: Vernon, Repidea, Avoyalles, Pointe Coupee, West Felicians, East Felicians, Seint Heiens, Tangipehoe, Washington, and sil Parishes south thereof. Also the following counties of the State of Mississippl: Pearl River, Store, George, Hancock, Harrison, and Jackson. Also the following counties of the State of Alabams: Mobile and Baldward.

North Louisiane—Arkenses: The State of Arkenses and those parts of the States of Louisiana, Mississippi, and Alabema not included in the Louisiana Gulf Coast District.

New Mexico: The State of New Mexico.

#### PAD District IV

Rocky Mountain: The States of Montana, Ideho, Wyoming, Utah, and Colorado.

# PAD District V

West Coast: The States of Washington, Oregon, Callfornia. Nevade, Arizona, Alaska, and Hawell.

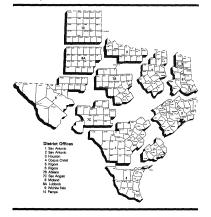
# Petroleum Administration for Defense (PAD) Districts



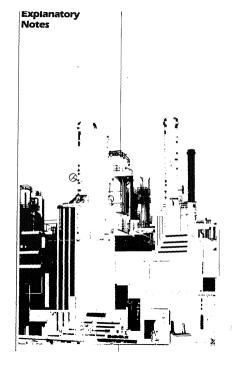
# Bureau of Mines Refining Districts



# District Map Oil and Gas Division Railroad Commission of Texas









#### Note 1: Data Collection Methodology

#### Background

Beginning in Jawusy 1983, the Energy Information Asministration (Ed.) unified in particular supply data collarities neithing the interface of the properties of the properties of the interface of the interface of the interface collection survey form, other processing systems and publication systems that have been consolidated to the properties of the consolidated to the been to review the weekly and monthly survey spectrag forms to the survey of the consolidation of the properties forms to those and definitions. As a result, is now set of survey forms were implemented in January 1983. The followties in the consolidation of the properties of the survey of the properties of the prop

prodecessor ic	11110.	
New Form Number	Name	Old Form Number
EIA-800	Weekly Refinery Re- port	EIA-161
EIA-801	Weekly Bulk Termi- nal Report	EIA-182
EIA-802	Weekly Product Pipe- line Report	EIA-163
EIA-803	Weekly Crude OII Stocks Report	EIA-164
EIA-804	Weekly Imports Re-	EIA-165
EIA-805	Weekly Shipments- from Puerto Rico to the United States Report	-
EIA-810	Monthly Refinery Re- port	EIA-87
EIA-811	Monthly Bulk Termi- nal Report	EIA-88
EIA-812	Monthly Product Pipeline Report	EIA-89
EIA-813	Monthly Crude Oil Re-	EIA-90
ERA-80	Monthly Imports Re-	ERA-60
EIA-815	Monthly Shipments from Puerto Rico to the United States Report	FEA-P133- M-0
EIA-818	Monthly Netural Ges Liquids Report	EIA-64
EIA-817	Monthly Tanker and Barge Movement Report	EIA-170

Forms EIA-800 through 805 comprise the Weekly Petroieum Supply Reporting System (WPSRS). This system is designed to collect basic refinery operations and product stock data for major products on a weekly baels. Data from the WPSRS are poblished in the Weskly and the WPSRS are poblished in the Weskly calculate the preliminary satisfacts and the Supplementary Statistics. "acception of the Particleum Supplementary Monthly Statistics" and policy of the Systems of the Supplementary Statistics." (PSM). A description of the WPSRS survey forms follows in Note 1.1.

Forms II.A-810413, 815417 and ERA-60 comprise the Monthly Particum Supply Reporting System (MPSR8). These surveys collect desigled refirmer operations date, or full results of the surveys and surveys and refined to the surveys are the primary source of periodeum products and crude oil between PAD Districts data. These surveys are the primary source of catal for the "Summary Statistics" and "Detailed Statistvey forms follows in Note 1.2 Georgian Control of the PSRS survey forms follows in Note 1.2 Georgian Control of the PSRS survey forms follows in Note 1.2 Georgian Control of the PSRS sur-

Date are also obtained in magnetic tape form from the Bureau of the Census on a monthly basis. These tapes contain aggregated import and export statistics that are used in the proparation of the PSM. A description of the Census data follows in Notes 1.3.

#### Note 1.1: Weekly Petroleum Supply Reporting System (WPSRS)

#### Background

The EA first bagan publishing weekly patroloum supply statistics in Andri 1979 in response to the Iranian oil crists, initially, the published date were taken from the American Patroloum Institute (API) Weekly Statistical Bulletin, However, in Jenuary 1980 the EIA began to publish weekly statistic from is own surveys, with the exception of importe statistics which the EIA did not begin called in until June 1989.

The weekly surveys collect data comparable to those collected on another basis. Selected performancement collected on a month basis. Selected performancement collected on a month basis selected performancement collected performancement to performancement performanceme

#### Sample Frame

The sample of companies that report weekly is selected from the universe of compenies that report on the comparable monthly surveys. Sampled companies report date only for facilities in the 50 States and District of Columbia.

The sample for each survey is taken from the following universe:

EIA-800: Based on the EIA-810 universe, which includes all petroleum refineries in the United States and

its territories, industrial facilities that have crude all distilitation capacity and produce some ratined petroleum products, and plants that produce finished motor gasoline through mechanical blending. The selected sample airs 1215

EIA-801: Based on the EIA-811 universe, which includes all bulk terminal facilities in the United States and its territories that have other a total bulk storage capacity of 50,000 barrels or more, or that receive petroioum products by tenker, barge, or pipeline. The selected semple size is 93.

EIA-802: Based on the EIA-812 universe, which includes all periodeum product pipeline companies in the United States and its territories that transport relined periodeum products, including interestate, intrastate and intracompany pipeline movements. Pipeline componies in the product of the product of the product of the transport products covered in the weekly survey are included. The solected sample size is 65.

EIA-903: Based on the EIA-813 universe, which consists of all companies which carry or store rude oil of 1,000 barrels or more in the 50 States, and the District of Columbia. Including interstate, Intrastate, and intecompanies (including interstate, Intrastate, and Intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alsakin crude oil of water.

EIA-804: Based on the ERA-80 universe, which includes all importers of record of crude all and petroleum products into the United States and Puerto Rico. The selected semple size is 65.

EIA-805: Based on the EIA-815 universe, which includes all shippers of unfinished alls and petroleum products into the United States from Puerto Rico, Four compenies report.

#### Sampling Method

The cut-off method is the sampling procedure used for all weekly surveys except the EM-902, which uses that monthly universe in its entirety, in the cut-off method, comparise set exhaust from integrat to amailset on the comparise set exhaust from integrat to amailset on the comparise set exhaust to a survey of the comparise set of the comparison set of the comparison

#### Collection Methods

Data are collected by mail, maligram, telephone, Telex, and Telefax on a weekly basis. The report period closes each Friday at 7 am. All carwased firms and terminal operations companies must file by 5 p.m. on the following Monday.

#### Estimation and Imputation

After company reports have been checked and entered into the weekly data base, weekly totals for given products are estimated by using the following formula.

The total reported by all companies for the most recent month (M) is childed by the amount reported by the sample of companies for the most recent month (Ma). The result is multiplied by the amount reported by the sample of companies for the current week (M). The amount, we have the companies for the current week (M), and the sample of companies for the current week if all companies for the current week if all companies for the current week if

$$W_1 = \frac{M_1}{M_2} (W_0)$$

This procedure is used to estimate total weakly inputs to refineries and production.

To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly imports data are highly verteble on a companyby-company-basis or a week-by-week basis. Therefor, by-company-basis or a week-by-week basis. Therefor, an exponentially amochted ratio has been developed, The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly velues and saterior of the company of the company

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific dompany.

## Response Rates

The response rate for the published estimates is usually between 95 and 98 percent.

# Note 1.2: Monthly Petroleum Supply Reporting System (MPSRS)

#### Background

The MRSRS was implemented in Januery 1983 as the result of an extensive affort to Integrate the collection
and processing of patroleum suprate the collection
and processing of patroleum suprate of the suprate of th

were further expanded to include natural gas plant liquids producition and etorage in 1985, Imports of crude oil and petroleum producits and storage and movements of petroleum producits in 1989, and tenker and barge movements of crude oil and petroleum producits in 1984, Since their Inapplin, each survey hes undergore numerous chengas, but the MPSRS is the Ifrat oftor to make them all consistent and companies.

#### Respondent Frame

EIA-810: All petroleum refineries and plants that produce finished motor gasoline through the mechanical blending of liquids which are operated or controlled in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, the Hawalian Foreign Trade Zone, and Guam. Approximately 313 respondents report on the EIA-810.

EIA-811: All bulk terminal facilities in the 50 Stetes and the District of Columbia, Puerto Rico, and the Virgin isisands that (e) have a total bulk storage capacity of 50,000 barrels or more and/or (b) receive petroleum products by tanker, barge, or pipeline, regerdless of ownership of the material. Approximately 328 respondents report enth EIA-811.

EIA-812: All products pipeline companies that carry petroleum products (including interestate, intrasatae and intracompeny pipelines) in the 50 Steles and the District of Columbia, Approximately 94 respondents report on the EIA-812.

EIA-813: All companies which cerry or store crude oil of 1,000 barrels or more in the 50 States, and the District of Columbia, Included are gathering and trunk pipeline companies (including interstate, intrastate, and intra-company pipelines), crude oil producers, terminal operators, atorers of crude oil, and companies transportino Alsakan crude oil by water.

EIA-815: All licensed importers and importers of record shipping petroleum products from Puerto Rico Into the 50 States and the District of Columbia.

Import date from the ERA-60 and EIA-815 are integrated into the import statistics reported in the PSM.

EIA-518: All operators of facilities designed to extract liquid hydrocarbons from natural gas strosom (natural gas processing plants) or to separate a hydrocarbon stream into its component products, i.e., propane, butten, natural gasoline, etc. (fractionstores). Approxi-

mately 990 respondents report on the FIA-818.

EIA-817: All known companies and plants that have custedly of crude oil and petroleum products transported by tanker and barge between PAD Districts or between PAD Districts and the Panema Canal. There are about 50 repondents.

ERA-60: All licensed importers and importers of record importing crude oil and petroleum products into the

United States and Puerto Rico. The respondent universe consisted of approximately 1,100 (firms as of July 31, 1982. However, only a selected 250 importers must report each month organizes of import activity, All others must report only for a month in which they actually hed imports. The respondent universe for this survey is updated whenever an import floense is grantative to the 10 cm of 10 imports of the FRA.

EIA utilizes a number of sources and methods to melital this eavery respondent lists. On a regular basis, survey managers review industry publications such as the Oll and Gas Journal and LP Ges Almanse for Intention on facilities or companies going into operation or closing down. These are augmented by articles in newspapers, lettors from respondents indicating hardings in that use of information received from survey hardings in status and information received from survey

Periodically an extensive survey study is conducted to completely referesh the frames. This involves consolidating Information from every known curve including stude agencies, federal spencies (e.g., EPA, Corps of Stude agencies, federal spencies (e.g., EPA, Corps of Circlottes, The effort also includes the evaluation of the Impact of potential frame changes on the historical time series of data published from these respondents. The results of this farme study are usually implemented.

#### Collection Methods

The data for all of the MPSRS surveys are collected monthly. Completed forms are required to be post-marked by the 20th day following the end of the report nonth, with the exception of the EBA-856 and EBA-80 which are due 16 work days to licewing the end of the report month. Telephone to follow-up calls are made to non-days the end of the report month. Telephone to follow-up calls are made to non-days and the end of the report month. Telephone to follow-up calls are made to non-days are the end of the

#### Imputing Missing Date

inguitation is performed only for nonresponding companies that submitted reports the previous month. For such companies, previous monthly values are used for current values. The previous monthly sales are used for current values. The previous monthly ending stocks as stocks and the current monthly ending stocks in the vant that the previous monthly ada, were estimated, the respondent is contracted and requested to submit the respondent is contracted and requested to submit the respondent is contracted and requested to submit and the respondent is contracted and requested to submit and the respondent is contracted and requested to submit and the respondent is an advantage of the respondent of actual data. Data for nonrespondent is on the ILLA site.

#### Response Rates

As of the filling deadline, the response rates of the EIA-810 through EIA-813 respondents is over 90 per-

cent. The response rate for the EIA-816 is over 85 percent and for the EIA-817 it is 98 percent. All companies that have not responded are contacted by telephone. Although data are taken by telephone to expedite proceasing, a certified submission is still required. Names of companies that fail to file for 2 consecutive months are forwarded for further nonompliance ection.

In July 1982, the ERA-60 survey had a response rate of 89 aproant by the filing deciline. The universe was 1,100 films et that time, (Because this is a dynamic survey, the universe is constainty changing.) Standard follow-up of nonrespondents is made to insure that all reports are recolved, since data are not imputed to nonrespondents. In addition, response is cross-checked with response in the Periodium Licensipie and Control of the Periodium Licensipie and the properties of the Periodium Licensipie and the properties are considered with response rate is generally 98 to 99 account by the firms the data ser first published.

# Note 1.3: Census Import (IM-145) and Export (EM-522 and EM-594) Data

#### Background

Each month the EIA purchases magnetic tapes of agregated import and export statistics from the Bureau of the Census. These date provide the only source of export statistics and are used to augment the import date collected by the EIA. Export statistics and import date collected by the EIA. Export statistics and import date from the Census tapes on liquetified petroleum gases, bonded thips bunkers and military offshore use are nutilished in the PSM.

#### Import Statistics (IM-145)

# Coverage

The import stellation sellect both government and nonpowerment imports of merchandles frem foreign coutries into the U.S. Customs territory (the 50 States, the District of Columbia, and Puerto Rick), without regard to whether or not a commercial transaction is involved. In general, the stellation service in the physical movement of merchandise into the United States from foreign countries, with the exception of the following types of

- Merchandise in-transit through the United States, when documented with Customs as an in-transit move-
- Shipments from anywhere to U.S. possessions and shipments from U.S. possessions to the United States, (U.S. possessions include Puerto Rico, the Viroln Islands, Guam, and American Sampa.)
- U.S. merchandise that was held in foreign countries by the U.S. Armed Forces and is returned to the United States for the use of the Armed Forces.

#### Source of Import Information

The official U.S. import statistics are compiled by the Bureau of the Census from copies of the import entry and warehouse withdrewal forms that importers are required by law to file with Customs officials (Customs Forms 7501, 7505, and 7506).

Imported petroleum is reported as Imports for Consumption, imports for consumption are a combination of entries for immediate consumption and withdrawals from werehouses for consumption. With certain exceptions as inclusted above, these data generally reflect the total of commodities entered into U.S. consumption channels:

#### Country and Area of Origin

The country reported in the statistics as the country of origin is defined as the country where the merchandise was grown, mined, or manufactured. In instance where the country of origin cannot be determined, the transactions are credited to the country of shipment.

#### Export Statistics (EM-522 and EM-594)

#### Coverage

The export statistics reflect both government and nongovernment exports of domestic and foreign merchadise from the U.S. Customs territory (the 50 States, the District of Oblumbia, and Puerto Rico) to foreign countries, without regard to whether or not the exportation inches a commercial transaction, in general, the siteinches as commercial transaction, in general, the siteiout of the United States to foreign countries, with the exception of the following types of transactions:

- All shipments from U.S. possessions, regardless of whether the shipments are sent to the United States, to other U.S. possessions, or to foreign countries.
- Merchandise shipped in transit through the United States from one foreign country to another, when documented as such with U.S. Customs.
- Bunker fuels and other supplies and equipment for use on departing vessels, planes, or other carriers engaged in foreign trade.

#### Source of Export Information

The official U.S. export statistics are compiled by the Bureau of the Census primarily from copies of Shipperial Decembers. Exporters are required to the shipperial December of the Shipperial Copies and the The only exceptions are those exporters who have been subtorized to submit data directly to the Bureau of Census on magnetic tape, punched cards, or monthly Shipper's Summary Export December (see

#### Country and Area of Destination

The country of destination is defined as the country of ultimate destination or the country where the goods are to be consumed, further processed, or manufactured, as known to the either processed, or manufactured, as known to the either processed or manufactured, the either processed or manufactured, the either processed or manufactured to the last country to which the shipper knows that the merchandse will be shipped in the same form as it was when exposite.

#### Note 2: Supply

The components of petroleum supply are field production, refinery production, imports, and stock withdrawal or soldition.

Field Production is the sum of crude all production (in-

cluding leese condensate), natural gas processing plant production, and new supply (field production) of other liquids used by refineries.

Crude oil production is estimated based on data received from State conservation and revenue agencies. For further explanation, see Explanatory Note 3.

Field production of natural gas plant liquids (NQPL). Including finished pertoleum products, is responted monthly on survey Form ELA-918, Monthly Natural Gas Liquids Report. Negative production will occur when the amount of a product produced during the month is less than the amount of that same product that is reprocessed (input) or reclassified to become another products that control is not produced that is reprocessed (input) or reclassified to become another and the control is not the product of the control in the control is not other desiry.

Relinery Production of LRGs, shame, and finished per troubs modeled in Seprend monthly on survey Form troubs modeled in Seprend monthly on survey Form troubs modeled in Seprend monthly on the Control of the troubs and prompting production and the control of the production of the control of the control of seprend production and the control of seprend production of seprend seprend production of seprend

Importe of crude oil and petroleum products are reported monthly on Form ERA-69, Report of 01 Imports into the United States and Puetro Rice, and Form International Conference on the United States and Puetro Rice, International Conference on the United States and addition, the Census Bureau Tabulation IMA-145 summitizes import data from cuesmost import declarations marked produced the Conference of the Conference of the promisent difference between the EMA 7000. The most promisent difference between the EMA 7000.

(LPG), where the Census data show a much higher level of imports than ElA data. This occurre because the ERA-80 respondent frame was built by monitoring importers of licensed products and I PGs at re not licensed products. Therefore, respondents that Import only LPGs have not been identified, and do not report these imports to the Department of Energy. Since these Importers are required to file form 7501 with the U.S. Cus. toms Service. EIA obtains data on Import 8 of LPGs from Consus Tabulation IM-145. Additional class taken from the IM-145 are relatively small quantities of naphthaand kerosene-type let fuels, distillate fuel oils, and residual fuel oils withdrawn from bonded storage for use in international trade and for military offshore use. Even though these duty-free fuels are a tored on United States shores, they did not enter the United States for domestic consumption and therefore are not included in the ERA-60 reporting system

Stock Withfrewal (1) or Addition (-) In a coloulated by sectoricality actions at the end of the non-th from attook extracting actions, at the beginning of the same month, (No-te: The beginning of the same month, (No-te: The beginning of the same month, or the same stock of the provious month). A positive result (1) would represent a withdrewal from stocks and an increase in performed mappine distributed for domains of the provious months and the same stocks and an increase in performan expelled activated for both the same stocks and an increase in performance mappine distributed for domestic consumptions. For a description of survey forms used to make stock, withdrewal or addition activation as set Explanations are Explanations.

Unaccounted-for Crude Oil is a balancing Item that represents the difference between crude Oil supply and disposition.

Code oil supply is the sum of little prod ucilion, imports and stock withdrawals or additions. Cruride oil disposition is the sum of exports, refinery impart, losses and product supplied. Unaccounted for crude oil is sebarated to the sum of exports, refinery impart, losses and product supplied. Unaccounted oil such contracts reported used in more crude oil the new servicers reported use of more crude oil them was recorded used to the sum of the crude oil them was reported or example, when imports are undercounted due to late reporting or other produced. A product of the crude oil undercounted due to the sum of the crude oil undercounted due to the sum of the crude oil undercounted due to the sum of the crude oil undercounted due to the crude oil undercounted due to the crude oil undercounted due to reference and supporter shart they reported under the reference and supporter shart they reported under the reference oil undercounted due to reference and supporter shart they reported under the reference of the sum of the crude oil undercounted due to reference and supporter shart they reported under the reference of the sum of th

## Note 3: Domestic Crude Oll Production

Data for the Coulde Oil Production System (COPS), are no proted to the Department of Energy by each of the State conservation agencies, which collect circuide oil production values for any purposes. The U.S. Geological Survey reports the volume of crude oil that it as produced offshort in Federally-owned valents with 1 the exception of which the County of the County of the County of the received monthly. After each calendary were mention with the County of the County of the County of the monthly numbers are updated using the annual received from the State conservation agencies and the U.S. Geological Survey. The ten States that do not report monthly values are indians, Kentucky, Missouri, Afkaneas, Utah, New York, Ohlo, Pennsylvenia, West Virginia, and Wyoming. Monthly values are estimated for these States using the individual linear trends of their hietorical annual ordue oil production values.

There is a time lag of approximately 4 months between the end of the reporting month and the time when the monthly COPS information becomes available. Table 11 of this publication provides information on code of this publication provides information on code of the control or values, the CAP calles Field COF file prepares a series of State level estimates which are based on historical proportion patients and are summed to obtain the monthly crude oil production values, the CAP calles Field CAP calles field of the control of th

The includiual State level estimates are either exponeniel curve fittled projections besed or necent data or are constant level projections based on the average procluction rate during a monet time period. In some cases, adjustments are made to these estimates based on additional information on expected changes in production rates supplied by a State agency, a trade association, or an individual field operator.

# Note 4: Disposition

The components of petroleum disposition are crude oil losses, refinery inputs, exports, and products supplied for domestic consumption.

Crude Oil Losses is the sum of crude oil losses at refineries. Crude oil losses at refineries are reported on Form EIA-810, Refinery Report.

Retinery inpute of crude oil, natural gas plant liquids, and other liquids are reported monthly on survey Form EIA-810, Monthly Retinery Report. Published linguits of unfinished oils and of motor and sylation gasoline blending components equal rofinory input minus erfinery output. Refinery inputs of finished petroleum products are reported on a net basis under refinery production.

Exports of crude oil and petroleum products are compiled from Census Bureau tabulations EM-522 and EM-594. Exports include crude oil shipments to Puerto Rico, the Virgin Islands, and the Hawailan Foreign Trade Zone, which are obtained from refinery receipts reported on Form EIA-810, by refineries located in these places.

Product aupplied for each product is calculated by summing field production plus refinery production, plus imports, plus stock withdrawal or minus stock addition, minus crude oil losses (plus net receipts when calculated on a PAD District basile), minus refinery input, minus exports. This formula ensures that total disposition equals total supply.

Products supplied inclinates those quantities of petroisam products supplied for domestic consumption. Occasionally, the result for a product is negative because total disposition of that product exceeds total supply. Negative products are producted to the product of the product of the product products of the product products of products. (2) a record products are products of the proported, (2) data were mileraported or reported late, (3) in the case of calculations on a PAD District basil, the figure for not product were products.

Product supplied for crude oil is the sum of crude oil burned on leases and by pipolines as fuel oil. These data are reported on Eli-813, Monthly Crude Oil Report, Prior to January 1983, crude oil burned on leases and by pipolines as fuel oil were reported as either distillate or residual fuel oil and included in product supplied for these products.

#### Note 5: Stocks

Primary stocks of crude oil are the aum of ending atocks reported monthly on Form EIA-810, Monthly Refinery Report, and on Form EIA-813, Monthly Crude Off Report, Crude oil held in the Strategic Petroleum Reserve is included unless otherwise noted. Alaskan grude oil in transit is also included. Stocks of grude oil are also reported weekly on Form EIA-800. Weekly Refinery Report, and on Form EIA-803, Weekly Crude Oil Stocks Report. Primary stocks of petroleum products are summed from data reported on Form EIA-816. Monthly Netural Ges Liquids Report, Form FIA-811. Monthly Bulk Terminal Report, and on Form EIA-812. Monthly Product Pipeline Report, Primary stocks of petroleum products do not include either secondary stocks held by dealers and lobbers or stocks held by consumers. Petroleum product atocks are also reported weekly on Form EIA-800, Weekly Refinery Report, Form EIA-801, Weekly Bulk Terminal Report, and Form EIA-802, Weekly Crude Oll Stocks Report, For survey descriptions and other details, see Explanatory Notes 1.1 - 1.3.

# Note 6: Average Stock Levels

The graphs displaying monthly stock levels of crude oil, inquestion motor quasiline, dettillate fue oil, reductal fuel oil, inquestide perroleum gases, and other producte provide the user with recent date as well as a summary of date from January through December or from July through June for the most recent 3-year period. This summary takes the form of an average range that includes seasonel warfation determined from a longer time period. The

average range represents the historical pattern; it is not a forecast.

These curves are updated semiannually (on Arpli 1 and October 1), by basing the everage ranges on a more recent time period. Each 3-year data series is adjusted by dropping the first 6 months and including the most recent 8 months.

For each date series, the monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of the Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive. The series is deseasonalized by subtracting the seasonal facfor for the appropriate month from the reported stock levels. The intent of deseasonalization is to remove only seasonal variation from the data. Thus, a deseasonalized series would contain the same trends and inregularities as the original data. For crude oil stocks. the derived sessonal factors are very small relative to crude oil stock levels. Therefore, the sessonal factors for distillate fuel oil, residual fuel oil, liquetied petroleum gases and other products are derived using monthly data from 1974-1980. For motor gasoline, the seasonal factors are based on monthly data from 1975. 1976, 1978, 1979 and 1980. In 1977, there was virtually no seasonal behavior in motor gasoline stocks. Monthly stock levels stayed at the same high level for the entire year. In addition, the sessonal natterns in 1973. 1974 and 1977 were not representative of the recent past, and these years were not used in the determination of seasonal patterns for motor gasoline stocks. Because of these differences in the year-to-year seasonal fluctuation of motor assoline, the evidence for the Illustrated seasonal patterns for crude oil, distillate fuel oil. residual fuel oil, liquefied petroleum gases and other products is stronger than is the evidence for the illustrated sessonal patterns for motor gaspline.

In some cases, these seasonal patterns do not show a smooth trensition from month to month. For example, the June factor for radidual fuel oil is slightly less than the May and July values, making a bump in the curve. As there is little difference in the magnitude of these seasonal factors, it is possible that this variation is due to the small number of observations (7 years) and the data variability.

Aftar seasonal factors are derived, the most recent 3year period (from January through December or from July through June) is desasaonelized. The everage of the desessonalized 38-month series detarmines the midpoint of the desessonalized average bend. The stancard error of the desessonalized 38-months is calculated adjusting for extreme data points. The width of the everage range is twice this standard error.

The upper curve of the average range is defined as the average plus the seasonal factors plus the standard error. The lower curve is defined as the average plus the seasonal factors minus the standard error.

#### Note 7: Movements

Movements of crude oil between PAD Districts are reported on Form ElA-817, Monthly Tanker and Barge Movement Report, and on Form ElA-93, Monthly Conted Off Report, Patroleum product inversents are recorded Off Report, Patroleum product inversents are reuced. Pipeline Report. Net receipts is the difference to use noted inverses to the content of the content of the tween total movements into and total movements out of each PAD District by pipeline, tanker, and barge. For 100 PAD Districts and other detail, see Explication 100 PAD DISTRICTS and Other Details, see Explication 100 PAD DISTRICTS and PAD DISTRICTS and

#### Note 8: Preliminary Monthly Statistics

Wookly data (Forms EIA-800, 801, 802, 803, and 804) are used to selfurate the most recent monthly values for the Summary Statistics section. Since some at the weekly reporting periods overlap two adjacent months, it is necessary to use weighting factors in the calculation of the monthly values.

To estimate crude oil and petroleum product imports, crude oil input to refineries and production of petroleum products for a specific month, the weekly setimates are weighted by the number of days of that month included in each week, then summed.

End-of-lenoth stock levels of crude oil and the major products fronting pagening, delitation between [3], and residuation products fronting pagening, delitation between [3], and residuation of the country first two weekly, reporting periods, that cover the month. This end-of-rounds about being and after the end of the month, the end-of-benesh stocks before and after the end of the month. The end-of-rounds about the end of the month, the end-of-benesh stocks before and after the validation weekl, that daily short changes between the two and-of-weekly that country the stock of the end-of-benesh stocks first down the last day of the month of inferred). This change is added to the estimation of the end-of-benesh stocks (excluded to the estimation of the end-of-benesh stocks).

Preliminary monthly estimates of domestic crude oil production are calculated as described in Explanatory Note 3.

#### Note 9: Notes on Tables

Note 9.1 Crude Oil end Patroleum Products Overview statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

 Crude Oil and Petroleum Products Stock Withdrawal (+) or Addition (-), Petroleum Products Supplied, Total Imports, Crude Oil Imports, Total Exports, and Crude Oil Exports appear as labaled in Table 4. Total Production and Crude Oil Production appear under Field Production in Table 4.

- Naturel Gas Pient Production is the sum of Natural Gas Liquids and Finished Petroleum Products Field Production in Table 4
- Patroleum Products Imports is the sum of Natural Gas Liquids and LRGs, Other Liquids, and Finished Petroleum Products Imports in Table 4.
- Total Crude Oil and Petroleum Products Ending Stocks appear in thousands of barrels in Table 2.
- Note 9.2 Crude Oil Supply and Disposition statistics on the referenced line appear in Table 1 of the Detailed Statistics, except where noted.
- Total Domestic Field Production, Alaskan Field Production, SPR Imports, Other Imports (synonymous with Imports Grose Excl. SPR), SPR and Other Primary Stocks Withdrewal (+) or Addition (-), Unsecounted For Crude Oil, Refinery Inputs, and Exports appear as labeled in Table 1.
- Crude losses and Product Supplied appear as labelod in Table 4.
- SPR Ending Stocks and Other Primary Ending Stocks (synonymous with stocks excluding SPR) appear in thousands of barrels in Table 1.
- Total Crude Oll Ending Stocks appear in thousands of harrels in Table 2.
- Total Imports appear in Table 4.

Note 9.3 Finished Motor Gesoline Supply and Disposition statistics on the referenced line appear in Table 4 of the Detailed Statistics, except where noted.

- Total Production is the sum of Field Production and Refinery Production in Table 4.
- imports, Stock Withdrawal (+) or Addition (-), Exports, and Product Supplied appear as labeled in Table 4.
- Unleaded Percent of Total Product Supplied represents the ratio of finished unleaded motor gasoline product supplied to total finished motor gasoline product supplied, multiplied by 100 and rounded to the pearest lenth
- Ending Stocks appear in thousands of barrels in Tebla 2.
- Note 9.4 Distillate and Residual Fuel Oil Supply and Disposition statistics on the referenced lines appear in Table 4 of the Detailed Statistics, except where noted.
- Total Production is the sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrewal (+) or Addition (~), Exports, and Product Supplied appear as labeled in Table 4.

- Ending Stocks appear in thousands of barrels in Table 2
- Note 9.5 Liquellad Patroleum Gasea Supply and Disposition statistics represent the aggregation of statistics on ethane, propane, butene, butene-propane mixtures, ethene-propane mixtures, and isobutane. The statistics on the referenced line appear in Teble 4 of the Passigled Statistics, excent where patied.
  - Total Production is the sum of Field Production and Refinery Production in Table 4
  - Imports, Stocks Withdrawai (+) or Addition (-), Refinery Inputs, Exports, and Product Supplied appear as labeled in Table 4.
- Ending stocks appear in thousands of barrels in Table 2
- Note 8.6 Other Petroleum Products Supply and Bisposition statistics represent the aggregation of statistics on natural gasoline, isopentane, unfrectionated stream, plant condensate, other liquids, and all finished petroleum products except finished motor gasoline, distillate fuel oil, and regidual fuel oil. The statistics on the referenced line are aggregated from Table 4 of the Detailed Statistics, except where noted.
- Total Production is the aggregated sum of Field Production and Refinery Production in Table 4.
- Imports, Stock Withdrawai (+) or Addition (-), Refinery inputs, Exports, and Product Supplied are agcregated from Table 4.
- Ending stocks are aggregated from ending stocks in thousands of barrais in Table 2.

#### Note 9.7 Table 1. U.S. Patroloum Balance

- Lines (1) through (3): Crude oil (Including lease condensels) production for Alask, Lower 48 States, and Tabl U.S. are calculated by calling the conservation agency in Alaska for Alaskan crude oil production during the month, estimating crude oil production the United States (see Explanatory Note 3), and taking the difference to equal production in the Lower 48
- Line (5): SPR Imports are reported on Survey Form ERA-60.
- Line (12): Total Other Sources equals crude oil stock withdrawal (+) or addition (-) plus unsccounted for crude oil minus crude losses in Table 2.
- Line (14): Natural gas plant liquide (NGPL) Production equals field production of natural gas liquida (NGL) plus field production of finished petroleum products in Table 2.
- . Line (15): NGPL imports equals the sum of the im-

- ports of natural gasoline and isopentane, unfractionated streem, and plant condensate imports in Table 2.
- Line (18): NGPL Stock Withdrawal (+) or Addition (-) is equal to the sum of stock withdrawal (+) or addition (-) of natural gesoline and isopentane, unfractionated stream, and plant condensate in Table 2.
- Line (17) equals the sum of lines (14), (15), end (16).
- Line (18): Unfinished oils and gesoline blending components Stock Withdrawal (+) or Addition (-) equals stock withdrawal (+) or addition (-) far other hydrocarbons and elcohol, for unfinished oils, motor gesoline blending components, and avietion gesoline blending components.
- Line (20): Other Hydrocarbons and Alcohol New Supply equals the field production of same in Table 2.
- Line (21): Refinery Processing Gain is a balencing item equal to total refinery production minus total refinery input in Table 2.
- Line (23): Total Other Liquids equals the sum of lines (18) through (22).
- · Line (24): Total Production of Products equals crude oil input to refineries plue field production of NGPL and finished petroleum producte; plue imports of natural cascline and isopentene, unfrectionated streem, and plant condensate: plus stock withdraws (+) or addition (-) of natural gasoline and isopentane, unfrectionated stream, and plant condensate: plus stock withdrawal (+) or addition (-) of other hydrocerbone end alcohol, unfinished oils, eviation geeoline blending componente, and motor gesoline blending components; plus importe of unfinished Oils, evietion gasoline blending components, end motor assoline blending components; plus field production of other hydrocarbons and alcohol; plus total refinery production; minue total refinery input; plus crude oil product supplied in Table 2.
- Line (25): Gross imports of Retined Products equals imports of LPG plus imports of finished petroieum products in Table 2.
- Line (28): Exports of Refined Products equale exports of LPG plus exports of finished petroleum products in Table 2.
- Line (27): Net imports of Refined Products equals the difference between lines (25) and (26).

- . Line (28): Total New Supply of Products equals crude all input to refineries plus field production of NGPL and finished petroleum products: plus imports of natural casoline and isopentene, unfractionated stream, and plant condensate: plus stock withdrawal (+) or addition (-) of natural gasoline and lappentane, unfractionated stream, and plant condensate: plus stock withdrawsi (+) or addition (=) of other hydrocarbons and alcohol, unfinished oils, aviation gesoline blending components, and motor gasoline blending components; plus imports of unfinished olls, eviation casoline biending components, and motor casoline blending components; plus field production of other hydrocarbone and alcohol: plus total refinery production; minus total refinery input; minus crude oil product supplied plus imports of LPG and finished petroleum products: minus exports of LPG and finished petroleum products in Table 2.
- Line (29): Refined Products Stocks Withdrawai (+) or Addition (-) equals the sum of stock withdrawai (+) or addition (-) for LPG and finished petroleum products in Table 2.
- Line (30): Total Petroleum Products Supplied for Domestic Use equals total products supplied in Table 2.
- Lines (31) through (35) equal the respective products supplied in Table 2.
   Line (36): Other Products Supplied equals the sum
- of natural gasoline and lacoentane, unfractionated aream, plant condensate, validin gasoline, naphthe < 400 Deg. P for petrochemical feedstock use, other is > 400 Eeg. F for petrochemical feedstock use, other special ne
- Line (37): Total Product Supplied is equal to total products supplied in Table 2.
- The sum of lines (38) and (39), stocks of Crude OII and Lease Condensate (Excluding SPR) and stocks hold by the Strategic Petroleum Reserve, equals ending etocks of crude oil in Table 2. SPR stocks are reported on Form EIA-813.
- Line (43): stocks of Refined Products, equals the sum of LPG and finished petroleum product stocks in Table 2.



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# **Energy Information Administration**

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